5/2 пневмораспределитель с прямым электромагнитным управлением

VK3120

- M5, G1/8
- Компактная конструкция • Высокое быстродействие

Технические характеристики

TOANN-TOONNO Aapan Top					
Среда		Очищенный сжатый воздух с содержанием масла			
		или без него.			
Рабочий диапазон давл	ения (МПа)	0 – 0.7			
Рабочая температура (°	(C)	макс. 50			
Время срабатывания (м	ıc)	<10			
Макс. частота срабатые	ания (Гц)	10			
Вспомогательное ручно	е управление	Не блокируется			
Монтажное положение		Произвольное			
Электрический подвод		DIM-разъём			
Напряжение*		24 V DC, 220 V AC			
Допуск по напряжению		±10%			
Потребляемая	Вт, DC	4			
мощность	BA, AC	При срабатывании: 9.5; при удержании: 7			
Степень защиты		IP65			
Класс изоляции		В			
Искрогашение		См. ответную часть разъема, стр. 173			
Индикатор рабочего со	стояния	См. ответную часть разъема, стр. 173			

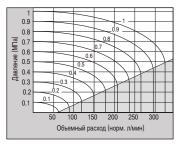


Номер для заказа*

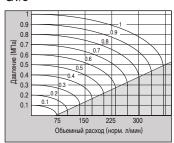
Конструктив	ное	Номер для заказа		Принцип	Условное	Присоед.	Расход	Bec
исполнение		24 V DC	220 V AC	действия	обозначение	резьба	(л/мин)	(r)
Монтаж сам	0-	VK3120-5DO-M5	VK3120-4DO-M5	5/2 с пружин-	(A) (B)	M5	147	90
стоятельно и	или			ным возвратом				
на многосек	ци-	EVK3120-5DO-01F	EVK3120-4DO-01F	в исходное	5 1 3 (R1)(P) (R2)	G1/8	167	
Онной плите)			положение	(11)(1)(12)			i l

Характеристики расхода

М5

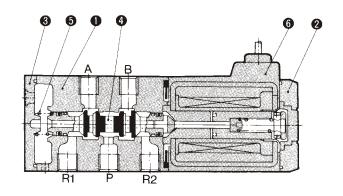


G1/8



Спецификация

Поз.	Обозначение	Материал
1	Корпус пневмораспределителя	Алюминий
2	Крышка	_
3	Концевая пластина	_
4	Золотник	_
5	Пружина	Сталь нержавеющая
6	Катушка	_



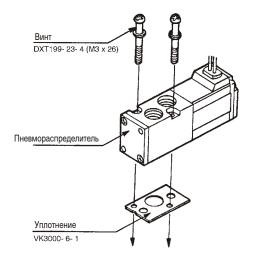
^{*} Другие напряжения по запросу



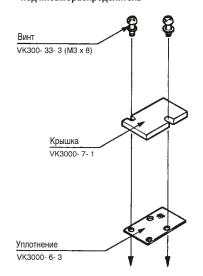
5/2 пневмораспределитель с прямым электромагнитным управлением VK3120

Монтаж

Пневмораспределителя на присоединительной плите для общего монтажа

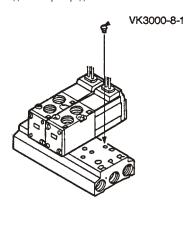


Крышка на присоединительной плите для заглушения свободного места под пневмораспределитель



Заглушка

Обеспечивается возможность монтажа 3/2 пневмораспределителя VK332 на плите под пневмораспределители VK3120.



Запасные части

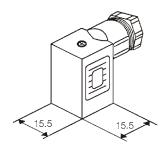
Обозначение	Номер для заказа
Комплект, состоящий из уплотнения между	VK3000-6-1A
пневмораспределителем и присоединительной	
плитой и крепежных винтов пневмораспределителя	

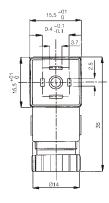
Принадлежности

Обозначение	Номер для заказа
Крышка с уплотнением и винтами	VK3000-7-1A
Заглушка для монтажа пневмораспределителя VK332	VK3000-8-1

Номер для заказа ответных частей разъема (заказываются отдельно)

Номер для заказа		Описание			
24 V DC 220 V AC					
K31		Без индикатора рабочего состояния			
		и искрогашения			
K33	K32	С индикатором рабочего состояния			
		и искрогашением			

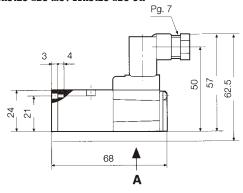


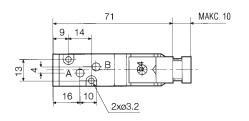


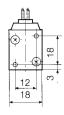
5/2 пневмораспределитель с прямым электромагнитным управлением **VK3120**

Размеры

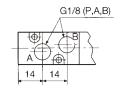
VK3120-0D0-M5 / EVK3120-0D0-01F



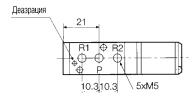




Вариант исполнения пневмораспределителя с G1/8



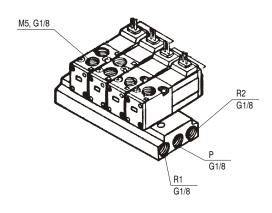
Вид А



	Подводы							
Тип	Α	В	Р	R1	R2			
M5	M5	M5	M5	M5	M5			
G1/8	G1/8	G1/8	G1/8	M5	M5			

Данные по заказу многосекционной присоединительной плиты

Количество секций	Номер для заказа
3	EVV5K3-20-03-00F
4	EVV5K3-20-04-00F
5	EVV5K3-20-05-00F
6	EVV5K3-20-06-00F
7	EVV5K3-20-07-00F
8	EVV5K3-20-08-00F
9	EVV5K3-20-09-00F
10	EVV5K3-20-10-00F
11	EVV5K3-20-11-00F
12	EVV5K3-20-12-00F
13	EVV5K3-20-13-00F
14	EVV5K3-20-14-00F
15	EVV5K3-20-15-00F
16	EVV5K3-20-16-00F
17	EVV5K3-20-17-00F
18	EVV5K3-20-18-00F
19	EVV5K3-20-19-00F
20	EVV5K3-20-20-00F

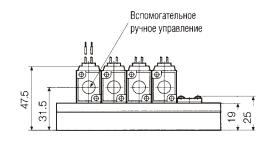


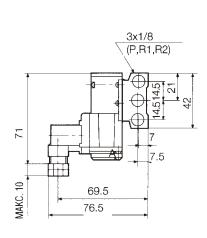
Винты и уплотнительные элементы для монтажа на присоединительных плитах поставляются вместе с присоединительными плитами.

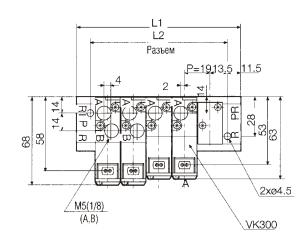


5/2 пневмораспределитель с прямым электромагнитным управлением VK3120

Многосекционная плита / размеры







Кол-во секций	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	73	92	111	130	149	168	187	206	225	244	263	282	301	320	339	358	377	396
L2	65	84	103	122	141	160	179	198	217	236	255	274	293	312	331	350	369	388
L3	51	70	89	108	127	146	165	184	203 22	2 241	260	279	298	317	336	355	374	

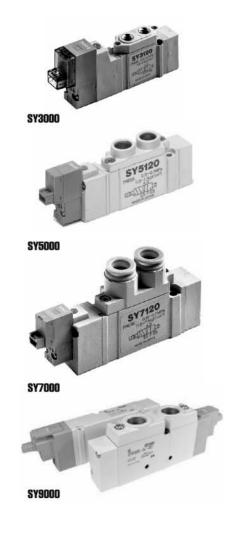
5/2, 5/3 пневмораспределитель с электропневматическим управлением **SY3000/5000/7000/9000**

M5~G1/2; ø4~ø12

- Компактная конструкция
- Низкая потребляемая мощность 0.1 Вт (энергосберегающее исполнение)
- Высокая скорость срабатывания менее 10 мс (для 5/2 с двусторонним управлением)
- Высокая пропускная способность
- Ресурс не менее 50 млн. циклов

Технические характеристики

Серия		SY3000	SY5000	SY7000	SY9000				
Среда	i	Очищенный сжатый воздух с содержанием масла или без него							
Тип управления		Электропневматическое управление							
Рабочий диапазон	5/2 с одностор. управлением	0.15 ~ 0.7							
давлений (МПа)	5/2 с двустор. управлением	0.1 ~ 0.7							
	5/3	0.2 ~ 0.7							
Диапазон рабочі	их температур (°C)	-10 ~ 50							
Время	5/2 одностор. упр.	<12	<19	<33	<35				
срабатывания	5/2 двустор. Упр.	<10	<18	<28	<35				
(MC)	5/3	<16	<32	<50	<62				
Частота срабатывания	5/2 с одно/двустор. управлением	10	5						
(Гц)	5/3	3	3						
Вспомогательное	е ручное управление	Не блокируется							
Монтажное поло	жение	Произвольное							
Электрический р	разъем	2-х клеммны	ій 2-х клеммні	ый; DIN-разъем					
Напряжение		24 V DC		30 50					
		220 V AC							
Допуск по напря	яжению	+10% от номинального значения							
Потребляемая	DC	0.4; 0.45 (для DIN-разъёма с индикатором);							
			0.1 (энергосберегающее исполнение)						
Мощность (Вт) АС		2.6							
Степень защиты		IP40	IP40 (IP65 -	– DIN-разъем)					
Класс изоляции		В	_1:						
Искрогашение		Стандартное исполнение							
Индикатор рабоч	него состояния	Стандартное	исполнение (для	DIN-разъема – по	запросу, стр. 180)				



Номер для заказа / Характеристики расхода

Номер для заказа Sy3000

Конструк- тивное исполнение	Номер для заказа*	Принцип действия	Условное обозначение	Присоед. размер ** A, B	Расход (л/мин)	Bec (r)
Самостоят.	SY3120-5LOU-C4-Q	5/2 c	4(A)2(B)	C4	187	61
монтаж	SY3120-5LOU-C6-Q	односторонним		C6	196	57
или монтаж	SY3120-5LOU-M5-Q	управлением	5(R1) 3(R2) 1(P)	M5	1,41,41,5	51
на плите	SY3220-5LOU-C4-Q	5/2 c	4(A)2(B)	C4	187	79
пневмо-	SY3220-5LOU-C6-Q	двусторонним	ZZZ _//, _ ZZZ	C6	196	75
распредели-	SY3220-5LOU-M5-Q	управлением	5(R1) 3(R2) 1(P)	M5		70
телей	SY3320-5LOU-C4-Q	5/3 в среднем	4(A)2(B)	C4	187	82
	SY3320-5LOU-C6-Q	положении		C6	196	78
	SY3320-5LOU-M5-Q	закрыт	5(R1) 3(R2) 1(P)	M5		72
	SY3420-5LOU-C4-Q	5/3 в среднем	4(A)2(B)	C4	187	82
	SY3420-5LOU-C6-Q	положении		C6	206	78
	SY3420-5LOU-M5-Q	открыт	5(R1) 3(R2) 1(P)	M5		72
	SY3520-5LOU-C4-Q	5/3 в среднем	4(A)2(B)	C4	196	72
	SY3520-5LOU-C6-Q	положении под		C6	215	78
	SY3520-5LOU-M5-Q	давлением	5(R1) 3(R2) 1(P)	M5		72

SY3000



Ответные части разъемов заказываются отдельно (см. стр. XXX)

^{*} С напряжением питания 220 V АС поставляются по запросу.

^{** &}quot;C" – быстроразьемное соединение, например "C4" – ø4 мм.



5/2, 5/3 пневмораспределитель с электропневматическим управлением \$\frac{\frac{5}{3}000}{5}000/\frac{5}{0}00/\frac{7}{0}00/\frac{9}{0}00}

Номер для заказа / Характеристики расхода

Номер для заказа SY5000

Конструктивное исполнение:

Монтаж в качестве индивидуального пневмораспределителя или на плите пневмораспределителей

Номер для заказа	Принцип	Условное	Присоед.	Расход	Bec (r)		
24 V DC		220 V AC	действия	обозначение	размер *	(норм.	разъем с кабелем/
Разъем с кабелем	DIN-разъем	DIN-разъем			цил. А, В	л/мин)	DIN-разъем
SY5120-5LOU-C6F-Q	SY5120-5YO-C6F-Q	SY5120-4YO-C6F-Q	5/2 c	4(A)2(B)	C6	491	89/112
SY5120-5LOU-C8F-Q	SY5120-5YO-C8F-Q	SY5120-4YO-C8F-Q	односторонним		C8	500	80/103
SY5120-5LOU-01F-Q	SY5120-5YO-01F-Q	SY5120-4YO-01F-Q	управлением	5(R1) 3(R2) 1(P)	G1/8		70/93
SY5220-5LOU-C6F-Q	SY5220-5YO-C6F-Q	SY5220-4YO-C6F-Q	5/2 c	4(A)2(B)	C6	491	99/145
SY5220-5LOU-C8F-Q	SY5220-5YO-C8F-Q	SY5220-4YO-C8F-Q	двусторонним	ZZ 1// 1 ZZ	C8	500	99/145
SY5220-5LOU-01F-Q	SY5220-5YO-01F-Q	SY5220-4YO-01F-Q	управлением	5(R1) 3(R2) 1(P)	G1/8		89/135
SY5320-5LOU-C6F-Q	SY5320-5YO-C6F-Q	SY5320-4YO-C6F-Q	5/3 в среднем	4(A)2(B)	C6	393	112/158
SY5320-5LOU-C8F-Q	SY5320-5YO-C8F-Q	SY5320-4YO-C8F-Q	положении		C8	402	104/150
SY5320-5LOU-01F-Q	SY5320-5YO-01F-Q	SY5320-4YO-01F-Q	закрыт	5(R1) 3(R2) 1(P)	G1/8		94/140
SY5420-5LOU-C6F-Q	SY5420-5YO-C6F-Q	SY5420-4YO-C6F-Q	5/3 в среднем	4(A)2(B)	C6	402	112/158
SY5420-5LOU-C8F-Q	SY5420-5YO-C8F-Q	SY5420-4YO-C8F-Q	положении		C8		104/150
SY5420-5LOU-01F-Q	SY5420-5YO-01F-Q	SY5420-4YO-01F-Q	открыт	5(R1) 3(R2) (P)	G1/8		94/140
SY5520-5LOU-C6F-Q	SY5520-5YO-C6F-Q	SY5520-4YO-C6F-Q	5/3 в среднем	4(A)2(B)	C6	392	112/158
SY5520-5LOU-C8F-Q	SY5520-5YO-C8F-Q	SY5520-4YO-C8F-Q	положении под		C8	579	104/150
SY5520-5LOU-01F-Q	SY5520-5YO-01F-Q	SY5520-4YO-01F-Q	давлением	5(R1) 3(R2) 1(P)	G1/8		94/140

^{* &}quot;C" - быстроразъемное соединение, например "C6" - ø6 мм.

Ответные части разъемов заказываются отдельно (см. стр. 180)

Номер для заказа SY7000

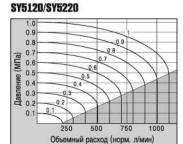
Конструктивное исполнение:

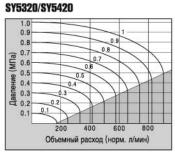
Монтаж в качестве индивидуального пневмораспределителя или на плите пневмораспределителей

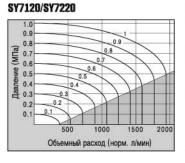
Номер для заказа			Принцип	Условное	Присоед.	Расход	Bec (r)
24 V DC		220 V AC	действия	обозначение	размер *	(норм.	разъем с кабелем/
Разъем с кабелем	DIN-разъем	DIN-разьем			A, B	л/мин)	DIN-разъем
SY7120-5LOU-C8F-Q	SY7120-5YO-C8F-Q	SY7120-4YO-C8F-Q	5/2 c	4(A)2(B)	C8	756	108/131
SY7120-5LOU-C10F-Q	SY7120-5YO-C10F-Q	SY7120-4YO-C10F-Q	односторонним		C10	864	103/126
SY7120-5LOU-02F-Q	SY7120-5YO-02F-Q	SY7120-4YO-02F-Q	управлением	5(R1) 3(R2) (P)	G1/4	883	102/125
SY7220-5LOU-C8F-Q	SY7220-5YO-C8F-Q	SY7220-4YO-C8F-Q	5/2 c	4(A)2(B)	C8	756	128/174
SY7220-5LOU-C10F-Q	SY7220-5YO-C10F-Q	SY7220-4YO-C10F-Q	двусторонним		C10	864	123/169
SY7220-5LOU-02F-Q	SY7220-5YO-02F-Q	SY7220-4YO-02F-Q	управлением	5(R1) 3(R2) 1(P)	G1/4	883	121/167
SY7320-5LOU-C8F-Q	SY7320-5YO-C8F-Q	SY7320-4YO-C8F-Q	5/3 в среднем	4(A)2(B)	C8	628	136/182
SY7320-5LOU-C10F-Q	SY7320-5YO-C10F-Q	SY7320-4YO-C10F-Q	положении		C10	668	131/177
SY7320-5LOU-02F-Q	SY7320-5YO-02F-Q	SY7320-4YO-02F-Q	закрыт	5(R1) 3(R2) 1(P)	G1/4	657	129/175
SY7420-5LOU-C8F-Q	SY7420-5YO-C8F-Q	SY7420-4YO-C8F-Q	5/3 в среднем	4(A)2(B)	C8	609	136/182
SY7420-5LOU-C10F-Q	SY7420-5YO-C10F-Q	SY7420-4YO-C10F-Q	положении	4(A)2(B) 5(R1), 3(R2)	C10	648	131/177
SY7420-5LOU-02F-Q	SY7420-5YO-02F-Q	SY7420-4YO-02F-Q	открыт	5(R1) 3(R2) 1(P)	G1/4		129/175
SY7520-5LOU-C8F-Q	SY7520-5YO-C8F-Q	SY7520-4YO-C8F-Q	5/3 в среднем	4(A)2(B)	C8	569	136/182
SY7520-5LOU-C10F-Q	SY7520-5YO-C10F-Q	SY7520-4YO-C10F-Q	положении под	22/14/15	C10	618	131/177
SY7520-5LOU-02F-Q	SY7520-5YO-02F-Q	SY7520-4YO-02F-Q	давлением	5(R1) 3(R2) 1(P)	G1/4	makesaana ni	129/175

^{* &}quot;С" - быстроразъемное соединение, например "С8" - Ø8 мм.

Ответные части разъемов заказываются отдельно (см. стр. 180)









5/2, 5/3 пневмораспределитель с электропневматическим управлением \$Y3000/5000/7000/9000

Номер для заказа

Номер для заказа SY9000

Конструктивное исполнение:

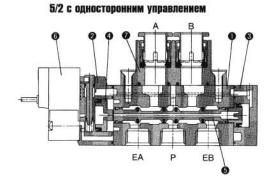
Монтаж в качестве индивидуального пневмораспределителя или на плите пневмораспределителей

Номер для заказа	5.00		Принцип	Условное	Присоед.	Расход	Bec (r)
24 V DC		220 V AC действия		обозначение	размер *	(норм.	разьем с кабелем/
Разъем с кабелем	DIN-разъем	DIN-разъем	280		цил. А, В	л/мин)	DIN-разъем SY9120-
5LOU-C8F-Q	SY9120-5YO-C8F-Q	SY9120-4YO-C8F-Q	5/2		C8	1669	296/317
SY9120-5LOU-C10F-Q	SY9120-5YO-C10F-Q	SY9120-4YO-C10F-Q	С	4(A)2(B)	C10	1865	282/303
SY9120-5LOU-C12F-Q	SY9120-5YO-C12F-Q	SY9120-4YO-C12F-Q	одностороним		C12	2159	268/289
SY9120-5LOU-02F-Q	SY9120-5YO-02F-Q	SY9120-4YO-02F-Q	управлением	5(R1) 3(R2) 1(P)	G1/4	1963	244/265
SY9120-5LOU-03F-Q	SY9120-5YO-03F-Q	SY9120-4YO-03F-Q			G3/8		239/260
SY9220-5LOU-C8F-Q	SY9220-5YO-C8F-Q	SY9220-4YO-C8F-Q	5/2		C8	1669	318/360
SY9220-5LOU-C10F-Q	SY9220-5YO-C10F-Q	SY9220-4YO-C10F-Q	С	4(A)2(B)	C10	1865	304/346
SY9220-5LOU-C12F-Q	SY9220-5YO-C12F-Q	SY9220-4YO-C12F-Q	двусторонним	ZZ _// _ ZZ	C12	2159	290/332
SY9220-5LOU-02F-Q	SY9220-5YO-02F-Q	SY9220-4YO-02F-Q	управлением	управлением 5(R1) 3(R2) 1(P)		1963	266/308
SY9220-5LOU-03F-Q	SY9220-5YO-03F-Q	SY9220-4YO-03F-Q			G3/8		261/303
SY9320-5LOU-C8F-Q	SY9320-5YO-C8F-Q	SY9320-4YO-C8F-Q	5/3		C8	1374	342/384
SY9320-5LOU-C10F-Q	SY9320-5YO-C10F-Q	SY9320-4YO-C10F-Q	в среднем	4(A)2(B)	C10	1472	328/370
SY9320-5LOU-C12F-Q	SY9320-5YO-C12F-Q	SY9320-4YO-C12F-Q	положении		C12	1669	314/356
SY9320-5LOU-02F-Q	SY9320-5YO-02F-Q	SY9320-4YO-02F-Q	закрыт	5(R1) 3(R2) 1(P)	G1/4	1570	290/332
SY9320-5LOU-03F-Q	SY9320-5YO-03F-Q	SY9320-4YO-03F-Q			G3/8		285/327
SY9420-5LOU-C8F-Q	SY9420-5YO-C8F-Q	SY9420-4YO-C8F-Q	5/3		C8	1865	342/384
SY9420-5LOU-C10F-Q	SY9420-5YO-C10F-Q	SY9420-4YO-C10F-Q	в среднем	4(A)2(B)	C10	1963	328/370
SY9420-5LOU-C12F-Q	SY9420-5YO-C12F-Q	SY9420-4YO-C12F-Q	положении		C12	2552	314/356
SY9420-5LOU-02F-Q	SY9420-5YO-02F-Q	SY9420-4YO-02F-Q	открыт	5(R1) 3(R2) 1(P)	G1/4	2159	290/332
SY9420-5LOU-03F-Q	SY9420-5YO-03F-Q	SY9420-4YO-03F-Q			G3/8		285/327
SY9520-5LOU-C8F-Q	SY9520-5YO-C8F-Q	SY9520-4YO-C8F-Q	5/3		C8	520	342/384
SY9520-5LOU-C10F-Q	SY9520-5YO-C10F-Q	SY9520-4YO-C10F-Q	в среднем	4(A)2(B)	C10	1472	328/370
SY9520-5LOU-C12F-Q	SY9520-5YO-C12F-Q	SY9520-4YO-C12F-Q	положении		C12		314/356
SY9520-5LOU-02F-Q	SY9520-5YO-02F-Q	SY9520-4YO-02F-Q	под давлением	5(R1) 3(R2) 1(P)	G1/4	1374	290/332
SY9520-5LOU-03F-Q	SY9520-5YO-03F-Q	SY9520-4YO-03F-Q	12 12%	000000	G3/8	1472	285/327

^{* &}quot;C" - быстроразъемное соединение, например "C8" - Ø8 мм.

Ответные части разъемов заказываются отдельно (см. стр. 180)

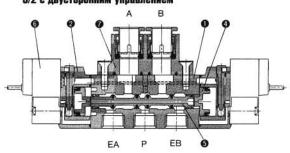
Конструкция



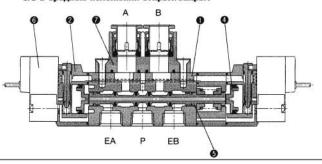
Спецификация

Поз.	Обозначение	Материал
1	Корпус пневмораспределителя	Алюминий
2	Промежуточная деталь	Полиацеталь
3	Концевая пластина	Алюминий
4	Поршень управления	Полиацеталь
5	Золотник	
6	Катушка	1/2
7	Комплект фитинга	-





5/3 в среднем положении открыт/закрыт





5/2, 5/3 пневмораспределитель с электропневматическим управлением \$\frac{\frac{5}{3}000}{5}000/\frac{5}{0}00/\frac{7}{0}00/\frac{9}{0}00}

Запасные части (заказываются отдельно)

Обозначение	Тип	Номер для заказа
Комплект,	SY3000	SY3000-26-19A-Q
состоящий из крышки,	SY5000	SY5000-26-20A-Q
уплотнения и винтов	Sy7000	SY7000-26-22A-Q
	SY9000	SY9000-26-1A-Q
Уплотнение	SY3000	SY3000-11-24
	SY5000	SY5000-11-15
	SY7000	SY7000-11-11
	SY9000	SY9000-11-2
Крепежный винт	SY3000	SY3000-23-4
	SY5000	M3x26
	SY7000	M4x31
	SY9000	SY9000-18-2
Крепежный угольник и винты *	SY3000	SX3000-16-1A
	SY5000	SX5000-16-1A
	SY7000	SX7000-16-1A

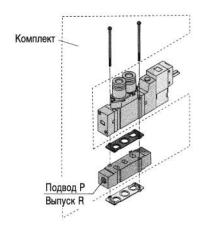
^{*} крепежный угольник для SY9000 не поставляется

Обозначение	Тип	Присоед.	Номер для заказа
Сменный блок фитингов	SY3000	M5	SY3000-6A-M5
для выходных		C4	SY3000-6A-C4
отверстий		C6	SY3000-6A-C6
	Sy5000	C6	SY5000-6A-C6
		C8	SY5000-6A-C8
		1/8	SY5000-6A-01F
	SY7000	C8	SY7000-6A-C8
	7	C10	SY7000-6A-C10
		1/4	SY7000-6A-02F
	SY9000	C8	SY9000-6A-C8
	20400043204476	C10	SY9000-6A-C10
		C12	SY9000-6A-C12
		1/4	SY9000-6A-02F
		3/8	SY9000-6A-03F

Уплотнение Сменный блок (резьбовой выход) Винт Сменный блок (резьбовой выход) Винт Сменный блок (быстроразьемное соединение)

Принадлежности (заказываются отдельно)

Обозначение	Тип	Присоединительная резьба	Номер для заказа
Индивидуальный	SY3000	М5, двусторонний	SY3000-39-1A-Q
выпуск воздуха	SY5000	1/8, двусторонний	SY5000-39-1FA-Q
с уплотнением	SY7000	1/4, двусторонний	SY7000-39-1FA-Q
и винтами	SY9000	1/4, двусторонний	SY9000-39-1FA-Q
Индивидуальный	SY3000	М5, односторонний	SY3000-38-1A-Q
подвод воздуха	SY5000	1/8, односторонний	SY5000-38-1FA-Q
с уплотнением	SY7000	1/4, односторонний	SY7000-38-1FA-Q
и винтами	SY9000	1/4, односторонний	SY9000-38-1FA-Q



5/2, 5/3 пневмораспределитель с электропневматическим управлением \$Y3000/5000/7000/9000

Ответные части разъемов (заказываются отдельно)

Ответные части разъемов

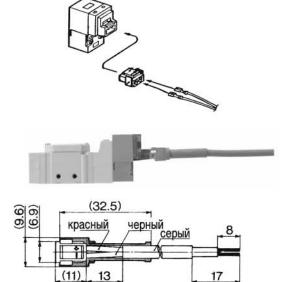
Обозначение	Тип	Длина	Номер для заказа		
		кабеля	24 V DC	220 V AC	
Кабель без оболочки	SY3000,	1000	SY100-30-4A-10	SY100-30-3A-10	
и предохранительного	SY5000,	2000	SY100-30-4A-20	SY100-30-3A-20	
колпачка	SY7000,	3000	SY100-30-4A-30	SY100-30-3A-20	
Кабель с оболочкой	SY9000	1000	SY100-68-A-10	-)	
и предохранительным		2000	SY100-68-A-20		
колпачком		3000	SY100-68-A-30	-	

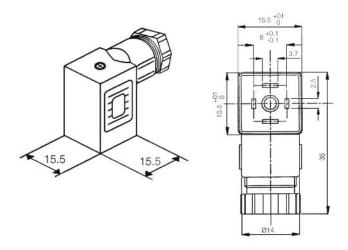
DIN-разъем

Описание	Тип	Номер для заказа		
		24 V DC	220 V AC	
Без индикатора рабочего состояния, без искрогашения	SY5000, SY7000,	K41		
С индикатором рабочего состояния, с искрогашением	SY9000	K43	K44	

Запасной элемент включения

Тип	Напряжение	Номер для заказа				
	av .	Разъем с кабелем	DIN-разъем			
SY3000	24 V DC	SY114-5LOU-Q	-			
SY5000			SY115-5YO-Q			
SY7000						
SY9000						
SY5000	220 V AC	-	SY115-4YO-Q			
SY7000						
SY9000		8				

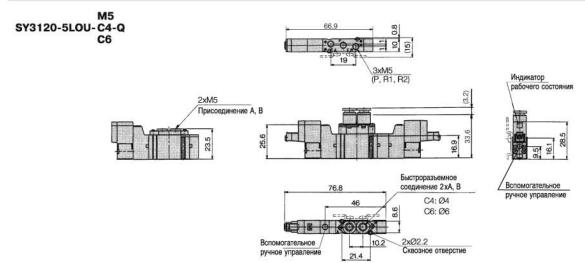




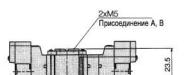


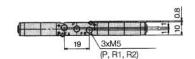
5/2, 5/3 пневмораспределитель с электропневматическим управлением \$\frac{\frac{5}{3}000}{5000}\frac{5}{000}\frac{7}{000}\frac{9}{000}\frac{9}{000}\frac{1}{3}\frac{

Размеры SY3000

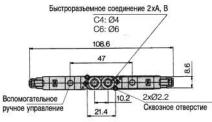


M5 SY3220-5LOU-C4-Q C6





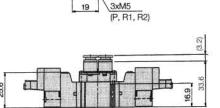




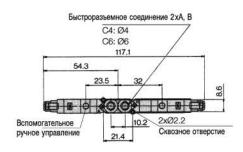


M5 M5 M5 SY3320-5LOU-C4-Q / SY3420-5LOU-C4-Q / SY3520-5LOU-C4-Q C6 C6 C6





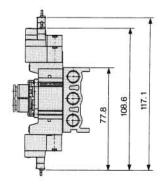
900

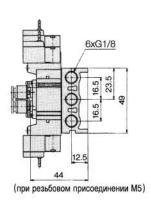


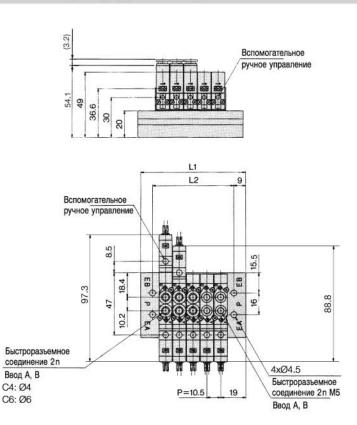


5/2, 5/3 пневмораспределитель с электропневматическим управлением \$Y3000/5000/7000/9000

Размеры многосекционной плиты пневмораспределителей SY3000







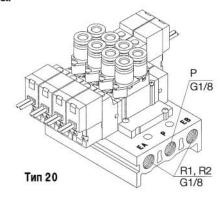
Количество секций	2	3	4	5	6	7	8	10	12
L1	48.5	59	69.5	80	90.5	101	111.5	132.5	153.5
L2	30.5	41	51.5	62	72.5	83	93.5	114.5	135.5
Bec (r)*	61	74	87	100	113	126	139	165	191

^{*} Вес указан без учета пневмораспределителей

Номер для заказа многосекционной плиты пневмораспределителей

Количество секций	Номер для заказа				
2	SS5Y3-20-02-00F-Q				
3	SS5Y3-20-03-00F-Q				
4	SS5Y3-20-04-00F-Q				
5	SS5Y3-20-05-00F-Q				
6	SS5Y3-20-06-00F-Q				
7	SS5Y3-20-07-00F-Q				
8	SS5Y3-20-08-00F-Q				
9	SS5Y3-20-09-00F-Q				
10	SS5Y3-20-10-00F-Q				
11	SS5Y3-20-11-00F-Q				
12	SS5Y3-20-12-00F-Q				

Большее количество секций по запросу (до 20 секций)

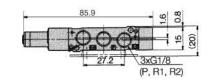


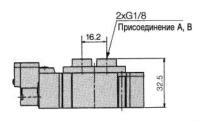


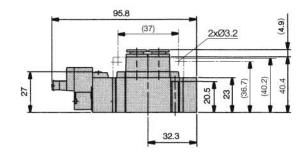
5/2, 5/3 пневмораспределитель с электропневматическим управлением \$\footnote{3}\text{SY3000/5000/7000/9000}

Размеры SY5000

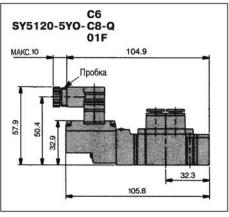
C6 SY5120-5LOU-C8-Q 01F

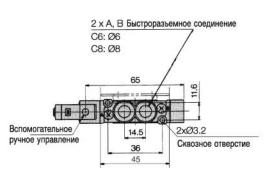




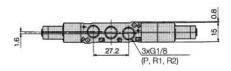


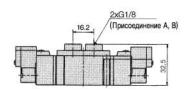


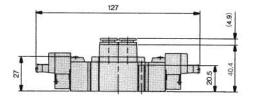




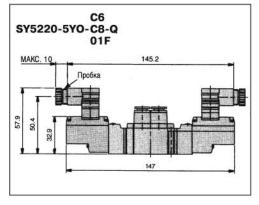
C6 SY5220-5LOU-C8-Q 01F

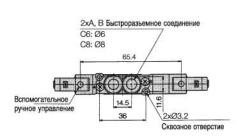








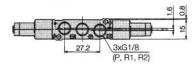


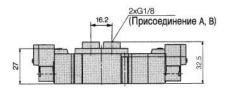


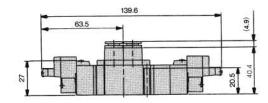
5/2, 5/3 пневмораспределитель с электропневматическим управлением **SY3000/5000/7000/9000**

Размеры SY5000

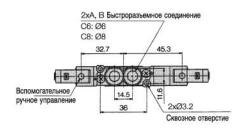
C6 C6 SY5320-5LOU-C8 -Q / SY5420-5LOU-C8-Q / SY5520-5LOU-C8-Q 01F 01F

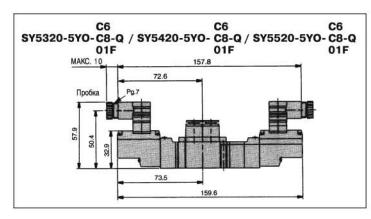








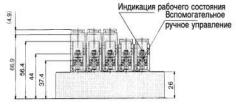


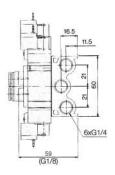




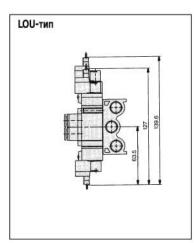
5/2, 5/3 пневмораспределитель с электропневматическим управлением \$\frac{\frac{5}{3}000}{5}000/\frac{5}{0}00/\frac{7}{0}00/\frac{9}{0}00}

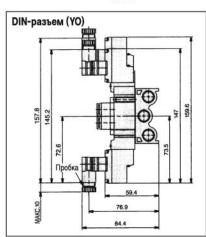
Размеры многосекционной плиты пневмораспределителей SY5000











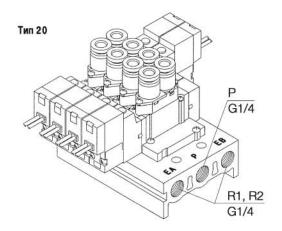
Количество секций	2	3	4	5	6	7	8	10	12
L1	60	76	92	108	124	140	156	188	220
L2	40	56	72	88	104	120	136	168	200
Вес (г)*	136	172	208	244	280	316	352	424	496

^{*}Вес указан без учета пневмораспределителей

Номер для заказа многосекционной присоединительной плиты

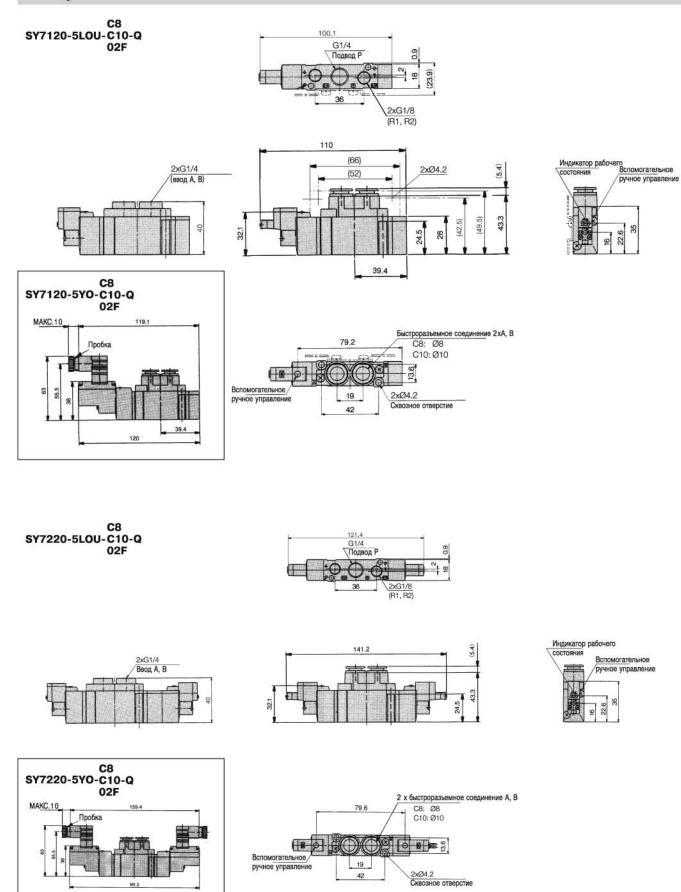
Количество секций	Номер для заказа
2	SS5Y5-20-02-00F-Q
3	SS5Y5-20-03-00F-Q
4	SS5Y5-20-04-00F-Q
5	SS5Y5-20-05-00F-Q
6	SS5Y5-20-06-00F-Q
7	SS5Y5-20-07-00F-Q
8	SS5Y5-20-08-00F-Q
9	SS5Y5-20-09-00F-Q
10	SS5Y5-20-10-00F-Q
11	SS5Y5-20-11-00F-Q
12	SS5Y5-20-12-00F-Q

Большее количество секций по запросу (до 20 секций)



5/2, 5/3 пневмораспределитель с электропневматическим управлением **SY3000/5000/7000/9000**

Размеры SY7000

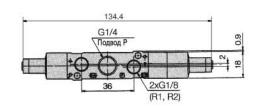


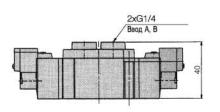


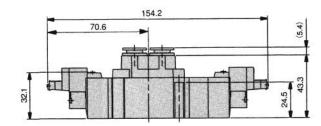
5/2, 5/3 пневмораспределитель с электропневматическим управлением \$\frac{\frac{5}{3}000}{5}000/\frac{5}{0}00/\frac{7}{0}00/\frac{9}{0}00}

Размеры SY7000

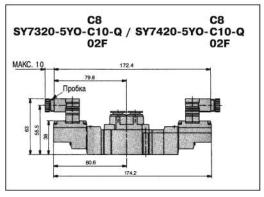
C8 SY7320-5LOU-C10-Q / SY7420-5LOU-C10-Q 02F 02F

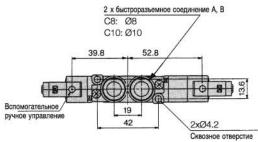








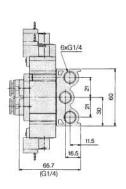


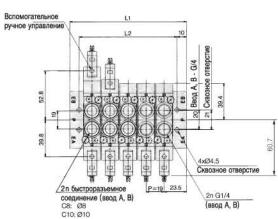


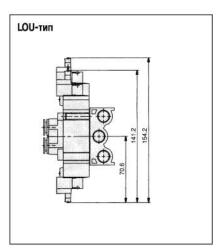
5/2, 5/3 пневмораспределитель с электропневматическим управлением \$Y3000/5000/7000/9000

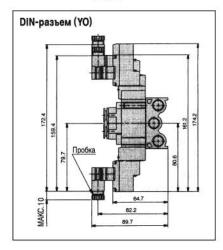
Размеры многосекционной плиты пневмораспределителей SY7000











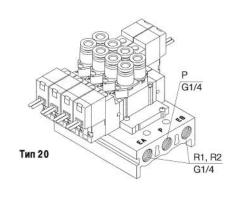
Количество секций	2	3	4	5	6	7	8	10	12
L1	66	85	104	123	142	161	180	218	256
L2	46	65	84	103	122	141	160	198	236
Вес (г)*	150	193	236	279	322	365	408	494	580

^{*} Вес указан без учета пневмораспределителей

Номер для заказа многосекционной присоединительной плиты

Количество секций	Номер для заказа
2	SS5Y7-20-02-00F-Q
3	SS5Y7-20-03-00F-Q
4	SS5Y7-20-04-00F-Q
5	SS5Y7-20-05-00F-Q
6	SS5Y7-20-06-00F-Q
7	SS5Y7-20-07-00F-Q
8	SS5Y7-20-08-00F-Q
9	SS5Y7-20-09-00F-Q
10	SS5Y7-20-10-00F-Q
11	SS5Y7-20-11-00F-Q
12	SS5Y7-20-12-00F-Q

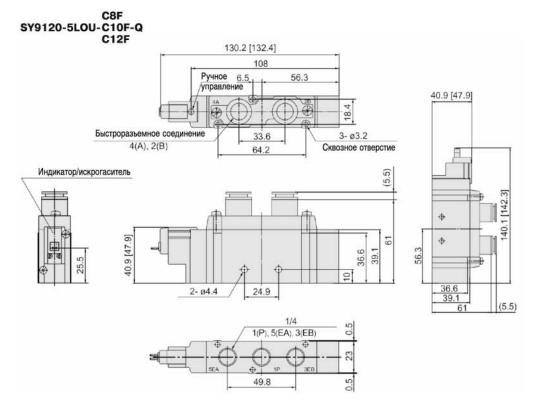
Большее количество секций по запросу (до 20 секций)

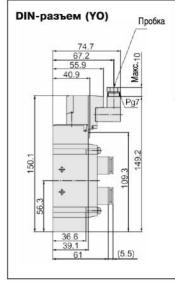




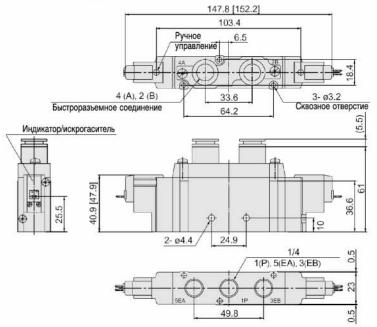
5/2, 5/3 пневмораспределитель с электропневматическим управлением \$\frac{\frac{5}{3}000}{5000}\frac{5}{000}\frac{7}{000}\frac{9}{000}\frac{9}{000}\frac{1}{3}\frac{

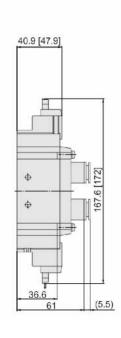
Размеры SY9000

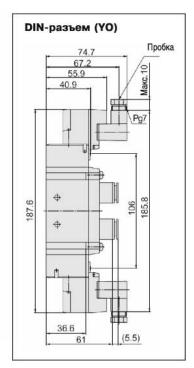




C8F SY9220-5LOU-C10F-Q C12F



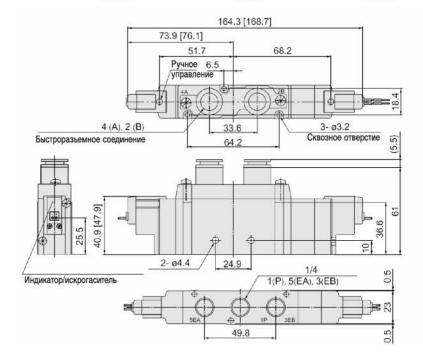


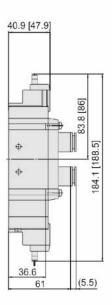


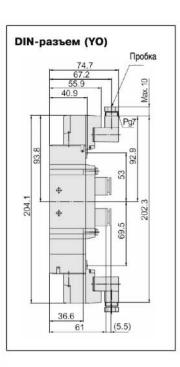
5/2, 5/3 пневмораспределитель с электропневматическим управлением \$Y3000/5000/7000/9000

Размеры SY9000

C8F C8F C8F SY9320-5L0U-C10F-Q / SY9420-5L0U-C10-Q / SY9520-5L0U-C10-Q C12F C12F C12F



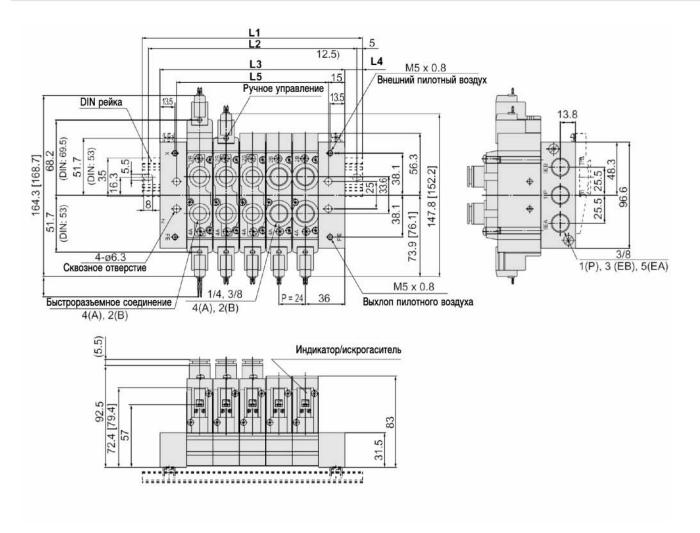


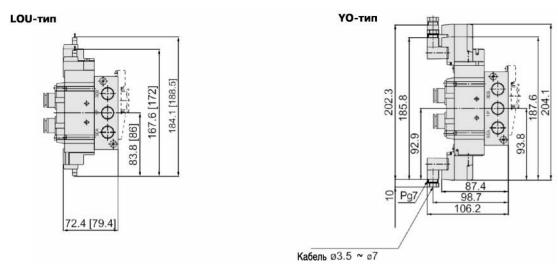




5/2, 5/3 пневмораспределитель с электропневматическим управлением \$\frac{\frac{5}{3}000}{5}000/\frac{5}{0}00/\frac{7}{0}00/\frac{9}{0}00}

Размеры многосекционной плиты пневмораспределителей SY9000





Кол. секций	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	123	148	173	198	223	248	273	298	323	335.5	360.5	385.5	410.5	435.5	460.5	485.5	510.5	535.5	560.5
L2	112.5	137.5	162.5	187.5	212.5	237.5	262.5	287.5	312.5	325	350	375	400	425	450	475	500	525	550
L3	96	120	144	168	192	216	240	264	288	312	336	360	384	408	432	456	480	504	528
L4	13.5	14	14.5	15	15.5	16	16.5	17	17.5	12	12.5	13	13.5	14	14.5	15	15.5	16	16.5
L5	66	90	114	138	162	186	210	234	258	282	306	330	354	378	402	426	450	474	498

5/2, 5/3 пневмораспределитель с электропневматическим управлением \$Y3000/5000/7000/9000

Номер для заказа многосекционной плиты пневмораспределителей SY9000

Номер для заказа

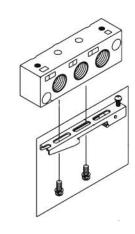
многосекционной присоединительной плиты

Количество секций	Номер для заказа
2	SS5Y9-23-02-00F-Q
3	SS5Y9-23-03-00F-Q
4	SS5Y9-23-04-00F-Q
5	SS5Y9-23-05-00F-Q
6	SS5Y9-23-06-00F-Q
7	SS5Y9-23-07-00F-Q
8	SS5Y9-23-08-00F-Q
9	SS5Y9-23-09-00F-Q
10	SS5Y9-23-10-00F-Q
11	SS5Y9-23-11-00F-Q
12	SS5Y9-23-12-00F-Q
13	SS5Y9-23-13-00F-Q
14	SS5Y9-23-14-00F-Q
15	SS5Y9-23-15-00F-Q
16	SS5Y9-23-16-00F-Q
17	SS5Y9-23-17-00F-Q
18	SS5Y9-23-18-00F-Q
19	SS5Y9-23-19-00F-Q
20	SS5Y9-23-20-00F-Q



Обозначение	Номер для заказа
Комплект для монтажа на DIN-шине	SY9000-29-1A







SMC. 5/2, 5/3 пневмораспределитель с электропневматическим управлением

Кассетный тип

SY3060/5060/7060

Зкономичны в использовании

- потребляемая мощность 0.4 Вт (0.1 Вт энергосберегающее исполнение)
- Возможно управление от контроллера, не требуется использование промежуточных реле

Уникальная технология монтажа

возможность оперативного изменения конфигурации блока без дополнительных затрат

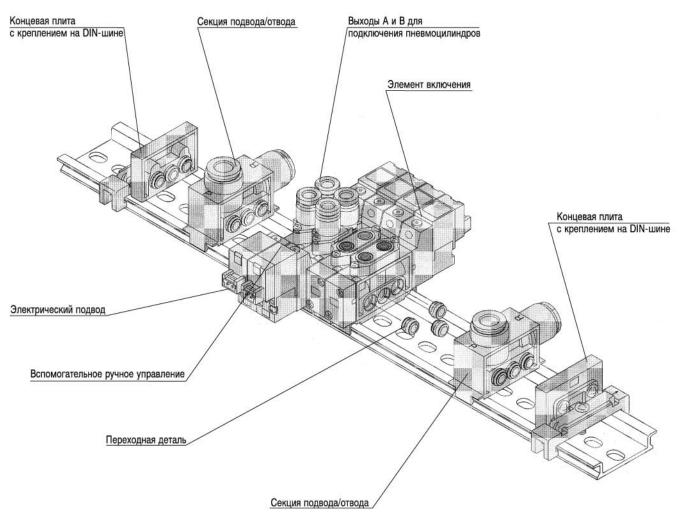
Быстродействие

время срабатывания 10 мс при потребляемой мощности 0.4 Вт (Sy3060, с двусторонним управлением)

Компактность блока пневмораспределителей

Ресурс - более 50 млн. циклов

Современный дизайн



5/2, 5/3 пневмораспределители с электропневматическим управлением

Кассетный тип

SY3060/5060/7060

M5~G1/4; ø4~ø10

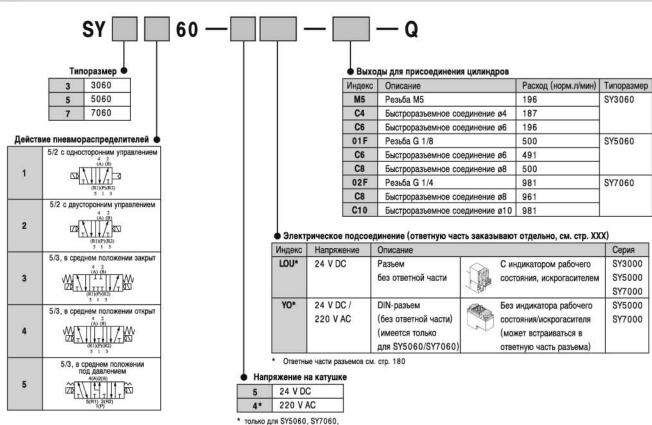
Технические характеристики

Типоразмер		SY3060	SY5060	SY7060				
Среда		Очищенный сжатый воз	дух с содержани	ием масла или без него				
Тип управления		Электропневматическо	е управление					
Рабочий диапазон	5/2 с одностор. управлением	0.15 - 0.7	54 N:					
давлений (МПа)	5/2 с двустор. управлением	0.1 - 0.7						
	5/3	0.2 - 0.7						
Диапазон рабоч	их температур (°C)	Макс. 50						
Время срабатыва	ания (мс)	<12	<19	<33				
Частота срабатывания	5/2 с одно/двустор. управлением	10	5	5				
(Гц)	5/3	3	3	3				
Вспомогательное	е ручное управление	Не блокируется						
Монтажное поло	жение	Произвольное						
Электрический г	одвод	2-х клеммный разъем	2-х клеммный	разъем; DIN-разъем				
Напряжение **	DC	24						
(B)	AC	220						
Допуск по напря	жению	-15% до +5%						
Потребляемая	DC	0.55						
мощность (Вт)	AC	<2.3						
Степень защиты		IP40	IP40 (IP65 -	DIN-разъем				
Класс изоляции		E		571				
Искрогашение		Стандартное исполнени	ne .					
Индикатор рабоч	него состояния	Стандартное исполнени	1e*					



** Другие напряжения - по запросу.

Номер для заказа



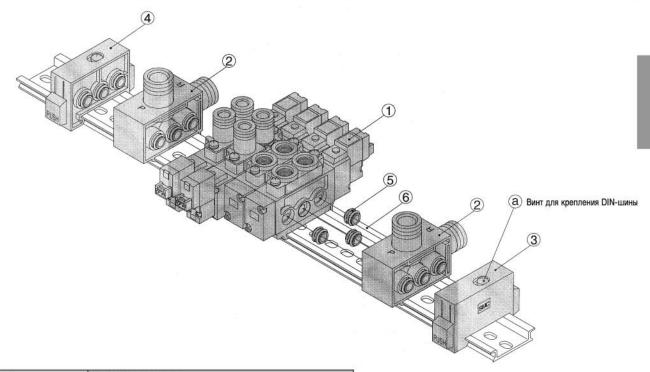
только в модификации с DIN-разъемом.

^{*} Для DIN-разъема – по запросу (см. Ответные части разъема, стр. 180)



SY3060/5060/7060

Спецификация



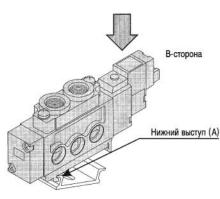
Поз.	Описание	Номер для заказа									
1	Пневмораспределитель	Тип пневмораспределителя									
	(см. стр. 194)	SY3000	SY5000	SY7000							
2	Секция подвода-отвода воздуха	SY3000-55-1A-Q	SY5000-55-1A-Q	SY7000-75-1A-Q							
3	Концевая плита правая	SY3000-56-1A-Q	SY5000-56-1A-Q	SY7000-56-1A-Q							
4	Концевая плита левая	SY3000-56-1B-Q	SY5000-56-1B-Q								
5*	Переходная деталь	SY3000-52-1A	SY5000-52-3A	SY7000-70-1A							
6	DIN-рейка	заказывается отде	льно								

Примечание

Тип распределител	Я	A.7
SY3000	SY5000	SY7000
Порт Р, R	Порт Р, R	Порт Р, R
секции подвода-	секции подвода-	секции подвода-
отвода воздуха:	отвода воздуха:	отвода воздуха:
быстроразъемное соединение ø8	быстроразъемное соединение ø10	быстроразъемное соединение ø12

В поставку каждого пневмораспределителя, а также секции подвода-отвода воздуха входят три переходных детали.

- * Переходную деталь необходимо заказывать в количестве 3 штук.
- 1. Нижний выступ пневмораспределителя (А) надеть на рейку.
- 2. Нажать пневмораспределитель в направлении стрелки (B) вниз до фиксации пневмораспределителя на DIN-рейке. Произвести выверку положения пневмораспределителя на DIN-рейке.
- 3. Отдельные пневмораспределители (1) соединяют, прижимая их друг к другу до тех пор, пока переходные детали не войдут до упора в положенные отверстия. Путем дальнейшего соединения пневмораспределителей число их доводят до желаемого количества.
- 4. Присоединить секцию подвода-отвода (2), прижав ее к пневмораспределителям слева или, соответственно, справа. Переходные детали должны войти до упора в положенные отверстия.
- 5. Концевые плиты справа (3) и слева (4) насадить на DIN-рейку и присоединить к пневмораспределителям, прижимая их друг к другу до тех пор, пока переходные детали не войдут до упора в положенные отверстия. Фиксирующие винты (а) затянуть с усилием 1 Нм.
- 6. Перед подключением сжатого воздуха следует следить за тем, чтобы между пневмораспределителями не было зазоров.



А-сторона

SY3060/5060/7060

Принадлежности

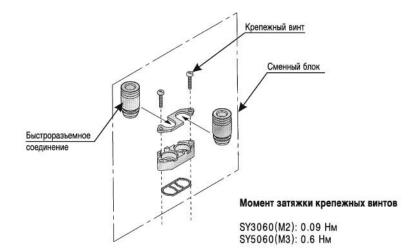


Тип	Номер для заказа											
	Пневмоглушитель	Пробка*		Доп. секция подвода воздуха	Доп. секция отвода воздуха	Разделительная заглушка*1						
SY3060	AN203-KM8	ø4	KQ2P-04	SY3000-54-1C	SY3000-55-1B	SY3000-52-2A						
OVE OGO	S Short and the Control of the Contr	ø6	KQ2P-06									
SY5060	AN200-KM10	ø4	KQ2P-04	SY5000-54-1C	SY5000-55-1B	SY5000-52-4A						
		ø6	KQ2P-06		230000000000000000000000000000000000000	The second secon						
		ø8	KQ2P-08									
SY7060	AN300-KM12	ø8	KQ2P-08	SY7000-54-1C	SY7000-55-1B	SY7000-52-2A						
	SANGEROS INVESTOS	ø10	KQ2P-10		Political Multiplicates - Cubin - Late Fig. 19							

^{*} С помощью пробки можно преобразовать распределители из 5/2 в 3/2.

Номер для заказа сменного блока фитингов см. стр. 179

Номер для заказа ответных частей разъема см. стр. 180



^{**} Универсальная для каналов подвода и отвода (деаэрации) воздуха.



SY3060/5060/7060

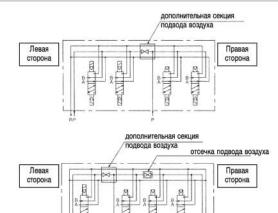
Принадлежности

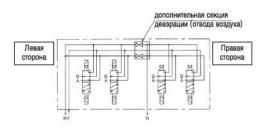
Пример использования, если на одной плите пневмораспределителей действуют два разных давления

Пример использования, если только один пневмораспределитель работает на другом павлении

Пример использования, если требуется выпустить воздух в двух разных местах

Пример использования, если дополнительно требуется выпустить воздух только из одного пневмораспределителя



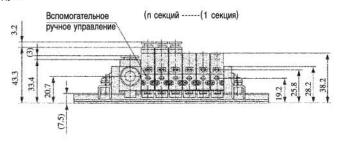


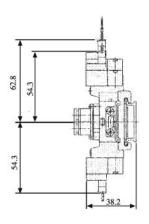


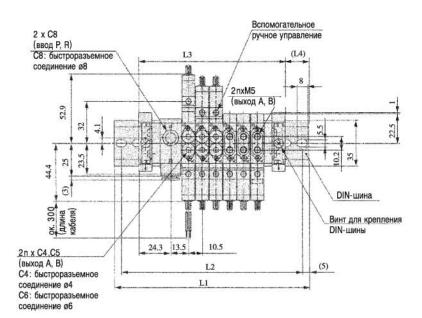
SY3060/5060/7060

Размеры

Тип SY3060 с одной секцией подвода-отвода воздуха







Размеры (мм)

п: количество секций

2	2	3	4	5	6	7	8	9	10
L1*	98	110.5	123	135.5	135.5	148	160.5	173	185.5
L2	87.5	100	112.5	125	125	137.5	150	162.5	175
L3	69.5	80	90.5	101	111.5	122	132.5	143	153.5
L4	14	15	16	17	12	13	14	15	16

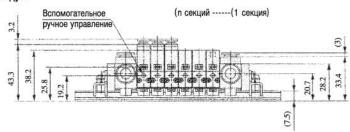
^{*} Размер L1 показывает необходимую длину DIN-рейки

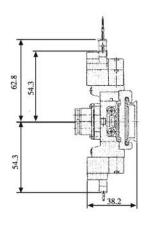


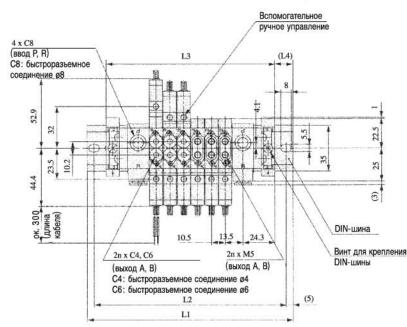
SY3060/5060/7060

Размеры

Тип SY3060 с двумя секциями подвода-отвода воздуха







Размеры (мм)

п: количество секций

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1*	110.5	123	135.5	148	160.5	173	173	185.5	198	210.5	223	235.5	235.5	248	260.5	273	285.5	298	310.5
L2	100	112.5	125	137.5	150	162.5	162.5	175	187.5	200	212.5	225	225	237.5	250	262.5	275	287.5	300
L3	86	96.5	107	117.5	128	138.5	149	159.5	170	180.5	191	201.5	212	222.5	233	243.5	254	264.5	275
L4	12	13	14	15	16	17	12	13	14	15	16	17	11.5	12.5	13.5	14.5	15.5	16.5	17.5

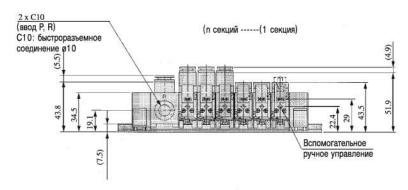
^{*} Размер L1 показывает необходимую длину DIN-рейки

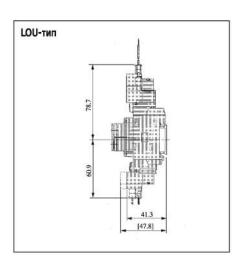
Кассетный тип

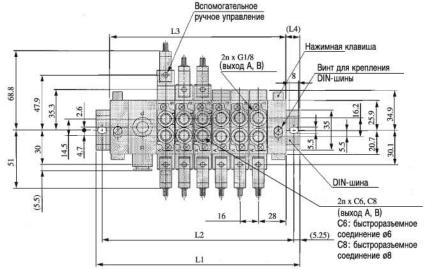
SY3060/5060/7060

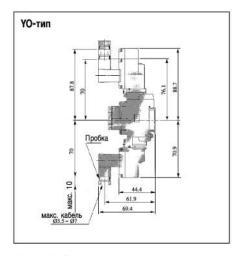
Размеры

Тип SY5060 с одной секцией подвода-отвода воздуха









Размеры (мм)

п; количество секций

	2	3	4	5	6	7	8	9	10
L1*	123	135.5	148	160.5	185.5	198	210.5	235.5	248
L2	112.5	125	137.5	150	175	187.5	200	225	237.5
L3	88	104	120	136	152	168	184	200	216
L4	17.5	15.5	14	12	16.5	15	13	17.5	16

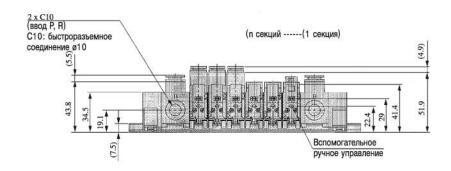
^{*} Размер L1 показывает необходимую длину DIN-рейки

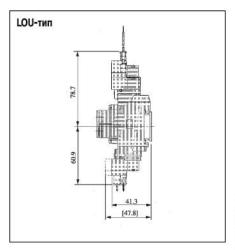


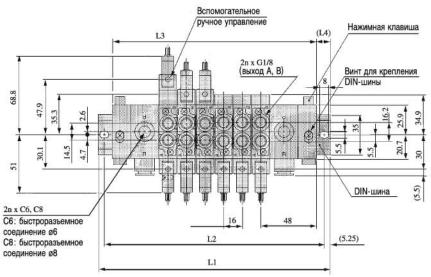
SY3060/5060/7060

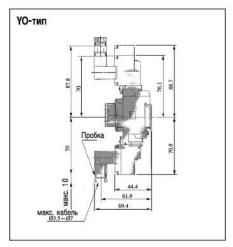
Размеры

Тип SY5060 с двумя секциями подвода-отвода воздуха









Размеры (мм)

п: количество секций

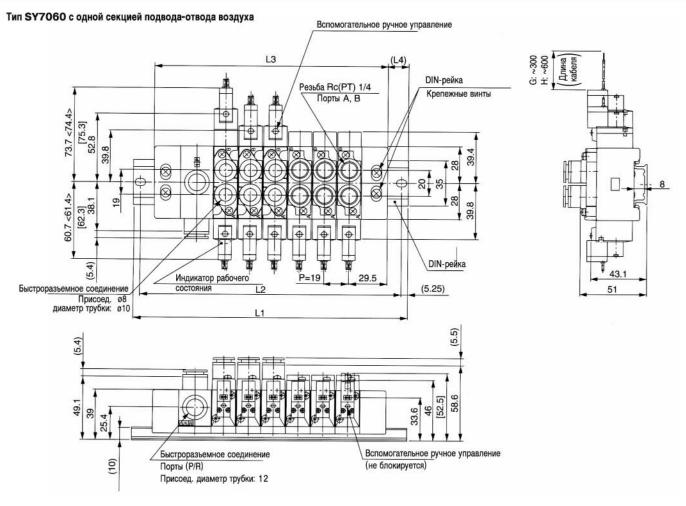
[2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1*	135.5	160.5	173	185.5	210.5	223	235.5	248	273	285.5	298	323	335.5	348	360.5	385	398	410.5	435.5
L2	125	150	162.5	175	200	212.5	225	237.5	262.5	275	287.5	312.5	325	337.5	350	375	387.5	400	425
L3	112	128	144	160	176	192	208	224	240	256	272	288	304	320	336	352	368	384	400
L4	11.5	16	14.5	12.5	17.5	15.5	13.5	12	16.5	14.5	13	17.5	15.5	14	12	16.5	15	13	17.5

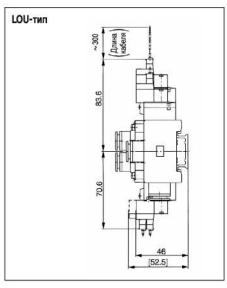
^{*} Размер L1 показывает необходимую длину DIN-рейки

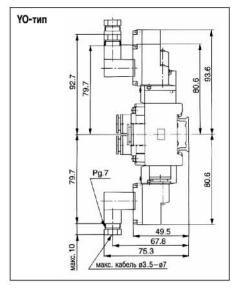
Кассетный тип

SY3060/5060/7060

Размеры







Разме	nы i	MM)
Lagivio	Put 1	iviivi,

п: количество секций

	2	3	4	5	6	7	8	9	10
L1*	135.5	148	173	185.5	210.5	223	248	260.5	285.5
L2	125	137.5	162.5	175	200	212.5	237.5	250	275
L3	103	122	141	160	179	198	217	236	255
L4	16	13	16	12.5	15.5	12.5	15.5	12	15

^{*} Размер L1 показывает необходимую длину DIN-рейки



DIN рейка

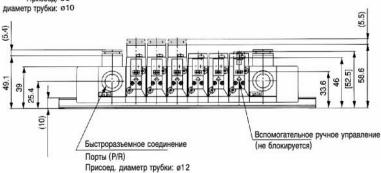
(5.25)

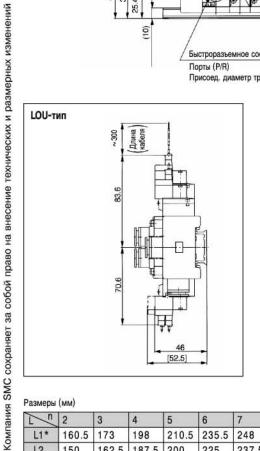
SY3060/5060/7060

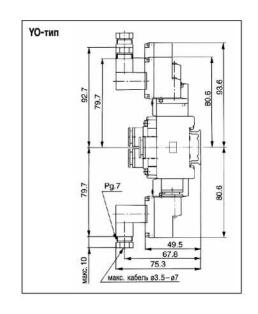
Размеры

Тип SY7060 с двумя секциями подвода-отвода воздуха Вспомогательное ручное управление 13 Длина кабеля Резьба Rc(PT) 1/4 (Порты A,B) 73.7 <74.4> 60.7 <64.1>

Быстроразъемное соединение / Присоед. ø8 диаметр трубки: ø10







разме	ры	(MM)
	P-0,	

n:	количество	секций

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1*	160.5	173	198	210.5	235.5	248	273	285.5	310.5	323	348	360.5	385	410.5	423	448	460.5	485.5	498
L2	150	162.5	187.5	200	225	237.5	262.5	275	300	312.5	337.5	350	375	400	412.5	437.5	450	475	487.5
L3	128	147	166	185	204	223	242	261	280	299	318	337	356	375	394	413	432	451	470
L4	16	13	16	12.5	15.5	12.5	15.5	12	15	12	15	11.5	14.5	17.5	14.5	17.5	14	17	14

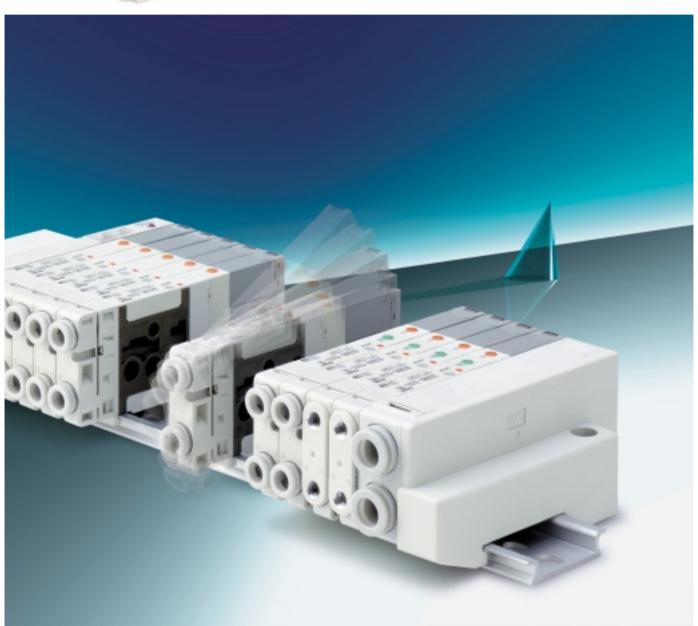
^{*} Размер L1 показывает необходимую длину DIN-рейки





5 Port Solenoid Valve/Body Ported Cassette Type Manifold

Series SZ3000



2 new options: 4 position dual 3 port valve, and valve with built-in check valve to prevent back pressure problems.

The plug-in cassette system makes valve replacement easy.

A plug-in manifold has been created with a height of 43.5mm (including DIN rail). Valve replacement can be performed easily.

Moreover, since spare terminals for wiring (receptacle housings) are contained inside the manifold, terminal changes (additions) can be performed quickly and easily.

(The number of additional stations is limited by the manifold specifications. Refer to page 14 for details.)



Adjustment and maintenance of equipment can be performed with greater safety, since the power to each valve can be shut off individually with built-in switches.



High speed response of 10ms (SZ3000 single, 0.5MPa, 24VDC,

without surge voltage suppressor

Low power consumption and a fast response time of 10ms are obtained with a unique pilot valve construction.

Low power consumption: 0.6W

(current value: 25mA at 24VDC)

Low power consumption enables direct operation by a PLC. Cost savings are realized through the use of a smaller power supply and the elimination of relay cards. The connector entry direction can be changed from top to side with a simple operation.

High reliability and long life of 50 million cycles or more

High reliability and long life have been achieved with guide ring construction which prevents eccentricity of the main valve, and a return piston with increased return force.

(Single and double solenoid types)



5 Port Solenoid Valve/Body Ported Cassette Type Manifold

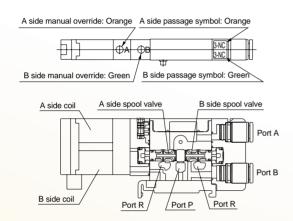
Series SZ3000



New

4 position dual 3 port valve

- Two 3 port valves are contained in one valve body.
- The A and B ports can be individually controlled.
- [N.C./N.C.], [N.O./N.O.] and [N.C./N.O.] combinations are available.
- Mixed mounting with 5 port valves is also possible.
- Labels matched to the colors of the manual overrides are affixed to indicate the "A" and "B" side functions.

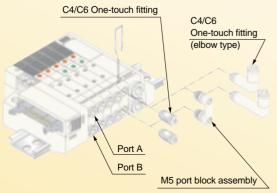


Model	A side	B side	JIS symbol
SZ3A60	N.C. valve	N.C. valve	4(A) 2(B)
SZ3B60	N.O. valve	N.O. valve	4(A) 2(B) ZD 3(R) 3(R) 1(P)
SZ3C60	N.C. valve	N.O. valve	4(A) 2(B) ZD

^{*} External pilot specifications are not available for 4 position dual 3 port valves.

Easy attaching/detaching of tubes

The interval between ports A and B is a wide 20.5mm, allowing easy changes of fittings and tubing.



New

Valve with back pressure check valve

- Prevents malfunction caused by exhaust from other valves.
- Effective for driving single acting cylinders and air operated valves, or when using exhaust center valves.
- Prevents back pressure individually on "A" and "B" sides of a 4
 position dual 3 port valve.

One-touch fittings can be changed

Series	Replac	Replaceable port sizes						
SZ3000	C4	C6	M5					

^{*} Elbow fittings are for C4 and C6 only.

New design and bright color tones

The top of the manifold has been flattened and the rounding of corners has been enlarged for easier handling. In addition, bright white color tones have been adopted to compliment modern operating environments.

Size and weight reduced by eliminating the manifold base

Series	SZ3000
Height	△31% reduction
Weight	△12% reduction

(Compared with SX3000-45 with DIN rail manifold and 5 stations)

Common exhaust

This feature provides for a cleaner operating environment by exhausting the pilot air through the main valve body rather than directly to the atmosphere.

Outstanding seal performance

The new rubber seals offer improved durability and performance. Valve failures due to line contaminants have been greatly reduced. (Ozone resistant seals available by special order.)





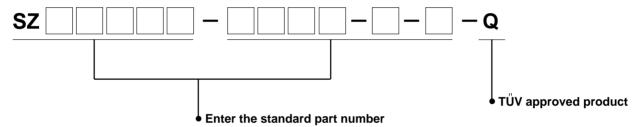
TÜV Approved Product

Conforms to standards necessary to satisfy EC directives.

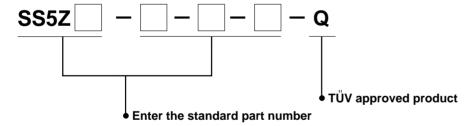
The SZ series has received approval for conformity to standards related to EMC Directives and DIN VDE 0580, from TÜV Rheinland, an EC Notified Body (EC authorization No. 0197). Moreover, since the rated voltage for this series is 50VDC or less, it is not subject to low voltage directives.

When ordering TÜV approved products, add "– Q" at the end of the standard part number.

Example of how to order a valve



Example of how to order a manifold



Note) Contact SMC for details, as there are limitations on product models, voltage specifications and electrical entry, etc.

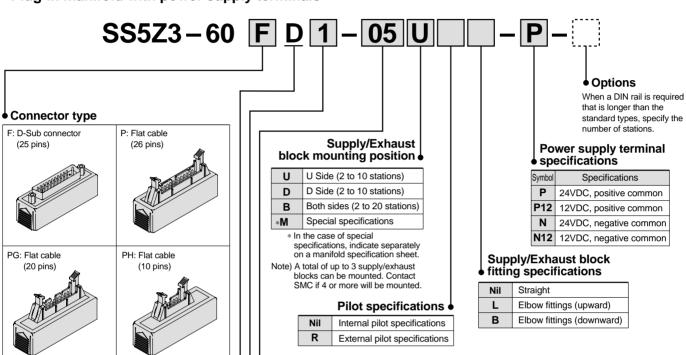


5 Port Solenoid Valve

Series SZ3000 Plug-in Type

How to Order

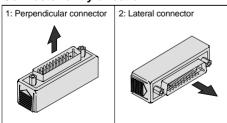
• Plug-in manifold with power supply terminals



Connector mounting position •

Symbol	Mounting position	
D	D side	

Connector entry direction •



♦ Valve stations

F: D-sub connector

	Symbol	Stations	Note			
	02 2 stations: :10 10 stations		Note 1)			
			Double wiring specification			
	02 2 stations		O: Note 2)			
	:		Specified layout Note 2) (up to 21 solenoids possible			
	20	20 stations				

PG: Flat cable connector (20 pins)

Stations 2 stations :	Note Double wiring specification			
2 stations	Double wiring appointment			
÷	Double wiring enecification			
8 stations				
2 stations	Specified layout			
÷	(up to 16 solenoids possible)			
6 stations				
2	2 stations			

P: Flat cable connector (26 pins)

Symbol	Stations	Note		
02	2 stations			
:	:	Double wiring specification		
11	11 stations			
02	2 stations	Considered lawaret		
:	:	Specified layout (up to 22 solenoids possible)		
20	20 stations	(-1		

PH: Flat cable connector (10 pins)

Symbol	Stations	Note			
02	2 stations				
:	:	Double wiring specification			
04	4 stations				
02	2 stations	Specified leveut			
:	:	Specified layout (up to 8 solenoids possible)			
08	8 stations	, ,			

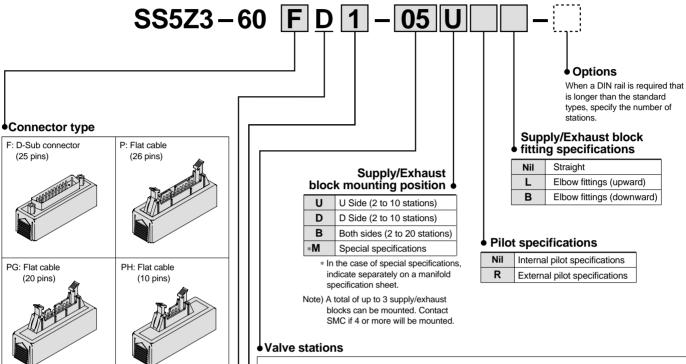
Note 1) Double wiring specifications: Single, double and 3 position/4 position solenoid valves can be used at all of the manifold stations.

Note 2) Specified layout: Indicate the wiring specifications on a manifold specification sheet. (Please note that in locations where single solenoid wiring is indicated, it will be impossible to use double or 3 position/4 position valves.)



How to Order

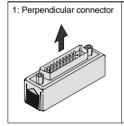
Plug-in manifold [without power supply terminals]

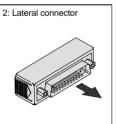


Connector mounting position •

	-	
Symbol	Mounting position	
D	D side	

Connector entry direction •





F: D-sub connector

Symbol	Stations	Note			
02	2 stations	Note 1)			
:	:	Double wiring specification			
12	12 stations				
13	13 stations	Specified wiring Note 2) (up to 24 solenoids possible)			
:	:				
20	20 stations	,			

PG: Flat cable connector (20 pins)

Symbol	Stations	Note			
02	2 stations				
:	:	Double wiring specification			
09	9 stations				
10	10 stations				
:	:	Specified wiring (up to 19 solenoids possible)			
19	19 stations	(

P: Flat cable connector (26 pins)

S	ymbol	Stations	Note				
	02 2 stations						
	:	:	Double wiring specification				
	12 12 stations						
	13	13 stations	D 181 1 1-1				
	:	:	Specified wiring (up to 25 solenoids possible)				
	20	20 stations	(42 to 20 00:0::00 200:0:0)				

PH: Flat cable connector (10 pins)

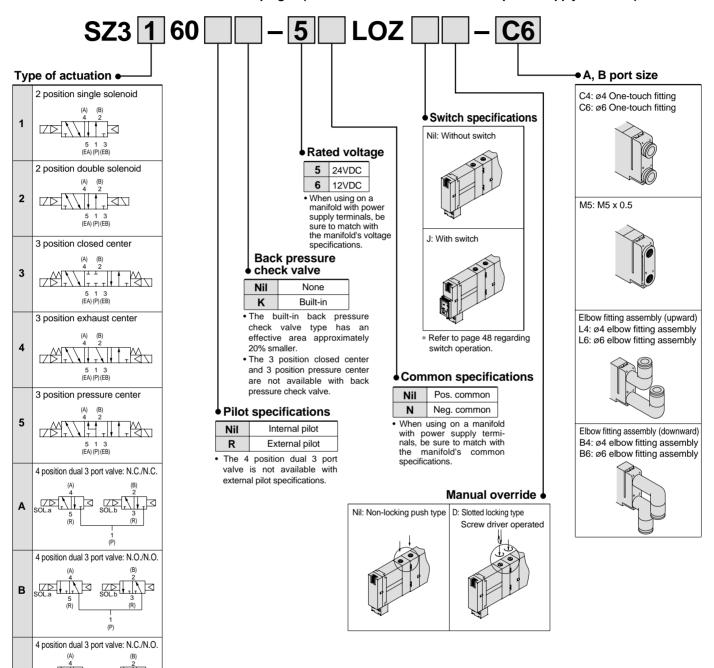
Symbol	Stations	Note			
02	2 stations				
:	:	Double wiring specification			
04	4 stations				
05	5 stations	Specified wiring (up to 9 solenoids possible)			
:	:				
09	9 stations	(ap to a colonicide passible)			

- Note 1) Double wiring specifications: Single, double and 3 position/4 position solenoid valves can be used at all of the manifold stations
- Note 2) Specified layout: Indicate the wiring specifications on a manifold specification sheet. (Please note that in locations where single solenoid wiring is indicated, it will be impossible to use double or 3 position/4 position valves.)



How to Order

• How to order solenoid valves For plug-in (common for both with and without power supply terminals)





С

How to Order Manifold Assemblies (Example)

Example (SZ3000, positive common with power supply terminals)



Double solenoid (24VDC)

SZ3260-5LOZ-C6 (3 sets)

Single solenoid (24VDC)

SZ3160-5LOZ-C6 (2 sets)

Plug-in manifold with power supply terminals

SS5Z3-60PD2-05U-P

SS5Z3-60PD2-05U-P....1 set (manifold part number)

*SZ3160-5LOZ-C6 2 sets (single solenoid part number)

*SZ3260-5LOZ-C6 3 sets (double solenoid part number)

The * symbol indicates built-in. Put the * symbol at the beginning of the part numbers for solenoid valves, etc., which are to be attached.

- Valve stations are numbered from station 1 on the D side.
- Indicate the valves to be attached below the manifold part number, in order starting from station 1 as shown in the drawing. When a layout becomes complicated, please indicate on a manifold specification sheet. (Manifold specification sheet on page 37.)

Manifold Specifications

Model		D-sub connector FI		lat cable type 60P□				
Model			60F	60P	60PG	60PH		
Manifold type				Plug-i	n type			
P (SUP), R (EXH) syste	m			Common	SUP, EXH			
Valve stations (with po	wer t	terminal)	2 to 20	stations	2 to 16 stations	2 to 8 stations		
A, B port piping		Location	Valve					
specifications		Direction	Lateral, Upward, Downward					
Port size P, R port		ports		(C8			
FOIL SIZE	A/B	ports		C4, C6, M5				
	C4	P→A/B		3.4 (0.19) [3.0 (0.17)]				
Note 2)	C4	A/B→R	3.2 (0.18) [3.2 (0.18)]					
Valve effective Note 2) area mm ²	C6	P→A/B	3.7 (0.21) [3.2 (0.18)]					
(Cv factor)	C0	A/B→R	3.9 (0.22) [3.8 (0.21)]					
	М5	P→A/B	3.4 (0.19) [3.2 (0.18)]					
		A/B→R	3.2 (0.18) [3.2 (0.18)]					
Applicable connector			D-sub connector Complies with MIL-C-24308 JIS-X-5101	Flat cable connector Socket: 26 pin MIL type with strain relief Complies with MIL-C-83503	Flat cable connector Socket: 20 pin MIL type with strain relief Complies with MIL-C-83503	Flat cable connector Socket: 10 pin MIL type with strain relief Complies with MIL-C-83503		
Internal wiring			+COM, -COM					
Weight W (g) Note 3) /n1: Stations n2: Number of supply/exhaust blocks m : Weight of DIN rail				W = 3.2n1 + 53	3n2 + m + 126.5			

Note 1) In cases such as those where many valves are operated simultaneously, use type B (double side supply/exhaust), applying pressure to the P ports on both sides and exhausting from the R ports on both sides.

Note 2) • The value is for manifold base mounting (5 stations). 2 position type with individual operation.

- Values inside [] are for 4 position dual 3 port valves. Furthermore, when the "A" and "B" sides of a 4 position dual 3 port valve are operated simultaneously, the value for the Cv factor will be approximately 35% less than shown in the table above.
- The Cv factor for a valve with back pressure check valve will be approximately 20% less than shown in the table above.

Note 3) The weight W is the value for the D-sub connector manifold with power supply terminals only. To obtain the weight with solenoid valves attached, add the solenoid valve weights given on page 5 for the appropriate number of stations. Refer to page 7 for the weight of DIN rails.



Cassette Type Manifold Series SZ3000

Solenoid Valve Specifications

Series			SZ3000	
Fluid			Air	
Internal milet	2 position single		0.15 to 0.7	
Internal pilot operating	2 position double		0.1 to 0.7	
pressure range	3 position		0.2 to 0.7	
MPa	4 position of	dual 3 port valve	0.15 to 0.7	
Futamal milet	Operating	pressure range	-100kPa to 0.7	
External pilot operating	Pilot	2 position single	0.25 to 0.7	
pressure range		2 position double	0.25 to 0.7	
MPa		3 position	0.25 to 0.7	
Ambient and fluid temperature °C			Maximum 50	
Max. operating frequency Hz	2 position single, double 4 position dual 3 port valve		10	
in equency 112	3 position		3	
Manual override	•		Non-locking push type, Screw driver operated slotted locking type	
Pilot system			Main valve/Pilot valve common exhaust type	
Lubrication			Not required	
Mounting position			Unrestricted	
Impact/Vibration resistance m/s² Note)			150/30 (8.3 to 2000Hz)	
Enclosure			Dust proof	

Note) Impact resistance: No malfunction when tested with a drop tester in the axial direction and at a right angle to the main valve and armature one time each in both an energized and deenergized condition. (initial value)

Vibration resistance: No malfunction when tested with one sweep of 8.3 to 2000Hz in the axial direction and at a right angle to the main valve and armature one time each in both an energized and deenergized condition. (initial value)

Solenoid Specifications

Electrical entry	L type (for plug-in), M type plug connector (M)
Rated coil voltage V Note)	24, 12, 6, 5, 3DC
Allowable voltage fluctuation	±10% of rated voltage
Power consumption W	0.6 (with light: 0.65)
Surge voltage suppressor	Diode
Indicator light	LED

Note) Only 24VDC and 12VDC are available for plug-in use.

Response Time

Note) Based on JISB8375-1981 dynamic performance test (with coil temperature of 20°C and at rated voltage).

	Response time ms (at 0.5MPa)					
Type of actuation	Without surge voltage	With surge voltage suppressor				
	suppressor	S, Z type				
2 position single	12 or less	15 or less				
2 position double	10 or less	13 or less				
3 position	15 or less	20 or less				
4 position dual 3 port valve	30 or less	35 or less				

Weight Table

	Type	of actuation	Port size	Weight g
Valve model	Турс	or actuation	A, B	Troight g
	0 !!!	Single		78
	2 position	Double	C4	84
		Closed center		
SZ3□60-□-C4	3 position	Exhaust center	ø4 One-touch fitting	88
		Pressure center		
	4 position	Dual 3 port valve		84
	2 position	Single		74
	2 position	Double	C6	81
070 - 00		Closed center	Ø6 One-touch	
SZ3□60-□-C6	3 position	Exhaust center	fitting	85
		Pressure center		
	4 position	Dual 3 port valve		81
	O manisian	Single		69
	2 position	Double		75
SZ3□60-□-M5		Closed center	M5 x 0.8	
323_00-L-1413	3 position	Exhaust center	IVIJ X U.O	79
		Pressure center		
	4 position	Dual 3 port valve		75



Manifold Options

■ SUP blocking disk

By installing a SUP blocking disk in the pressure supply passage of a manifold valve, it is possible to supply two or more different high and low pressures to one manifold. (Use in combination with a pilot port blocking disk.)



Series	Part no.
SZ3000	SZ3000-114-4A

■ EXH blocking disk

By installing an EXH blocking disk in the exhaust passage of a manifold valve, it is possible to divide the valve's exhaust so that it does not affect another valve. (Two blocking disk are needed to divide both exhausts.)



Series	Part no.
SZ3000	SZ3000-114-4A

■ Pilot port blocking disk

By installing a pilot port blocking disk in the pilot passage of a manifold valve, it can function as an internal pilot/external pilot mixed manifold.



Series	Part no.
SZ3000	SZ3000-114-2A

■ Indicator stickers for blocking disks

These stickers are to be put on valves in which SUP and EXH blocking disks have been installed so that confirmation is possible from the outside. (3pcs. of each are included.)

SZ3000-155-1A

Sticker for SUP/EXH blocking disk Sticker for EXH blocking disk





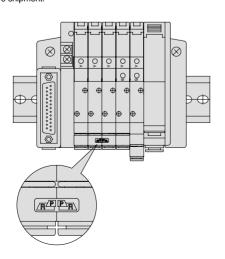
Sticker for SUP blocking disk

Sticker for pilot passage blocking disk



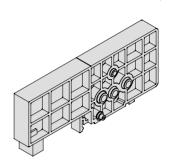


* If blocking disks are ordered on manifold specification sheets, etc., at the same time that manifolds are ordered, stickers will be attached to the valves with blocking disks installed before shipment.



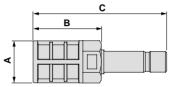
■ Blanking block assembly SZ3000-55-1A

These are mounted when later addition of valves is planned, etc.



■ Silencer with One-touch fitting

This silencer can be mounted on the manifold's port R (exhaust) with a single touch.

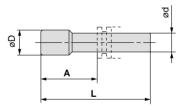


Series Model		Effective sectional area	Α	В	C
for SZ3000 (Ø8)	AN203-KM8	14mm²	ø16	26	51

■ Plugs (white)

These are inserted in cylinder ports or SUP/EXH ports which are not being used.

They can be ordered in multiples of 10 pieces.



Dimensions

Applicable fitting size ød	Model	Α	L	D
4	KQ2P-04	16	32	6
6	KQ2P-06	18	35	8
8	KQ2P-08	20.5	39	10

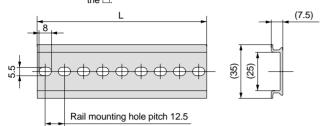


Manifold Options

■ DIN rail dimensions/Weight table

VZ1000-11-1Refer to the L dimension tables

* Enter a number from the DIN rail dimension table below in the \square



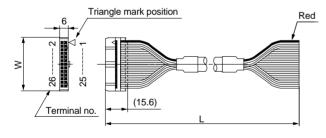
	No.	0	1	2	3	4	5	6	7	8	9
L	dimension	98	110.5	123	135.5	148	160.5	173	185.5	198	210.5
٧	Veight (g)	17.6	19.9	22.1	24.4	26.6	28.9	31.1	33.4	35.6	37.9

No.	10	11	12	13	14	15	16	17	18	19
L dimension	223	235.5	248	260.5	273	285.5	298	310.5	323	335.5
Weight (g)	40.1	42.4	44.6	46.9	49.1	51.4	53.6	55.9	58.1	60.4

No.	20	21	22	23	24	25	26	27	28	29
L dimension	348	360.5	373	385.5	398	410.5	423	435.5	448	460.5
Weight (g)	62.6	64.9	67.1	69.4	71.6	73.9	76.1	78.4	80.6	82.9

■ Flat cable type/Cable assembly

AXT100-FC □-\frac{1}{3}



Flat cable assembly

Cable length (L)	10 pins	20 pins	26 pins
1.5m	AXT100-FC10-1	AXT100-FC20-1	AXT100-FC26-1
3m	AXT100-FC10-2	AXT100-FC20-2	AXT100-FC26-2
5m	AXT100-FC10-3	AXT100-FC20-3	AXT100-FC26-3
Connector width (W)	17.2	30	37.5

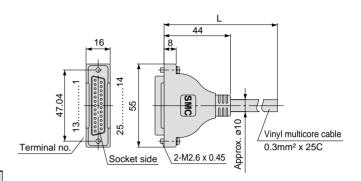
* If it is desired to use a commercially available connector, use one conforming to MIL-C-83503 with strain relief.

Sample of connector manufacturers

- HIROSE ELECTRIC COMPANY
- SUMITOMO/3-M LIMITED
- FUJITSU LTD.
- · Japan Aviation Electronics Industry, Ltd.
- J.S.T. Mfg. Co., Ltd.

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

AXT100-DS25-030 050



D-sub connector cable assembly wire colors by terminal number

wire colors by terminal number						
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				

D-sub connector cable assembly

Cable length (L)	Assembly no.	Note		
1.5m	AXT100-DS25-015			
3m AXT100-DS25-030		Cable 25 cores x24AWG		
5m	AXT100-DS25-050			

^{*} If it is desired to use a commercially available cable, use a 25 pin female type connector conforming to MIL-C24308.

Sample of connector manufacturers

- HIROSE ELECTRIC COMPANY
- FUJITSU LTD.
- Japan Aviation Electronics Industry, Ltd.
- J.S.T. Mfg. Co., Ltd.

Electrical characteristics

Item	Characteristic
Conductor resistance Ω/km, 20°C	65 or less
Withstand voltage VAC for 1min.	1000
Insulation resistance MOkm 20°C	5 or less

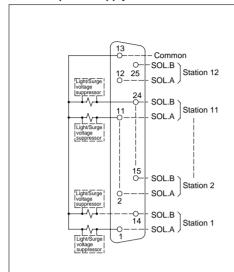
Note) The minimum inside bending radius for the D-sub connector cable is 20mm.



Manifold Electrical Wiring

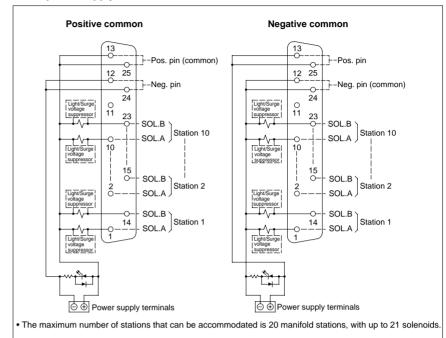
60F D-sub connector type (25 pins)

· Without power supply terminals



- The common polarity should be the same as the common specifications of the valve to be used.
- The maximum number of stations that can be accommodated is 20 manifold stations, with up to 24 solenoids.

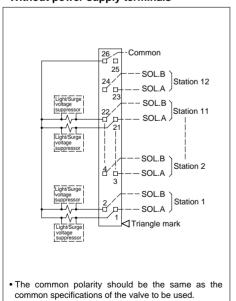
With power supply terminals



- The circuits above are for the double wiring specification with up to 10 or 12 stations. Connect to SOL.A in the case of a single solenoid. Moreover, when wiring instructions are given on a manifold specification sheet, the "A" signal for single and the "A, B" signals for double should be wired in order 1, 14, 2, 15.....etc., without skipping or leaving any connectors remaining
- Stations are counted starting with station 1 on the D side.

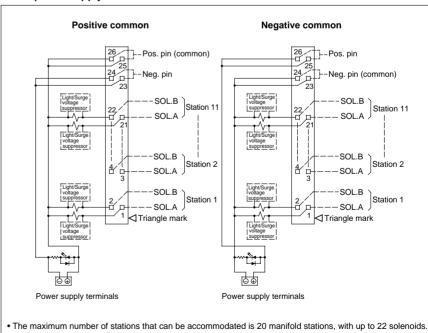
60P Flat cable type (26 pins)

· Without power supply terminals



- The maximum number of stations that can be accommodated is 20 manifold stations, with up to 25

· With power supply terminals



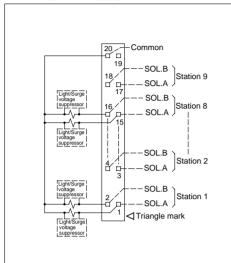
- The circuits above are for the double wiring specification with up to 11 or 12 stations. Connect to SOL.A in the case of a single solenoid. Moreover, when wiring instructions are given on a manifold specification sheet, the "A" signal for single and the "A, B" signals for double should be wired in order 1, 2, 3, 4.....etc., without skipping or leaving any connectors remaining
- . Stations are counted starting with station 1 on the D side.
- Since terminal numbers are not indicated on the flat cable, use the triangle mark as a reference when wiring.



Manifold Electrical Wiring

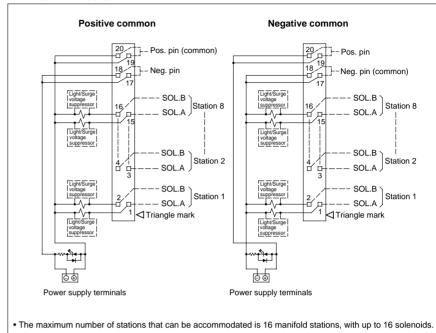
60PG Flat cable type (20 pins)

• Without power supply terminals



- The common polarity should be the same as the common specifications of the valve to be used.
- The maximum number of stations that can be accommodated is 19 manifold stations, with up to 19 solenoids.

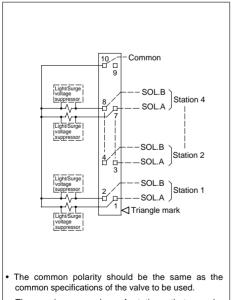
With power supply terminals



- The circuits above are for the double wiring specification with up to 8 or 9 stations. Connect to SOL.A in the case of a single solenoid. Moreover, when wiring instructions are given on a manifold specification sheet, the "A" signal for single and the "A, B" signals for double should be wired in order 1, 2, 3, 4.....etc., without skipping or leaving any connectors remaining.
- Stations are counted starting with station 1 on the D side.
- Since terminal numbers are not indicated on the flat cable, use the triangle mark as a reference when wiring.

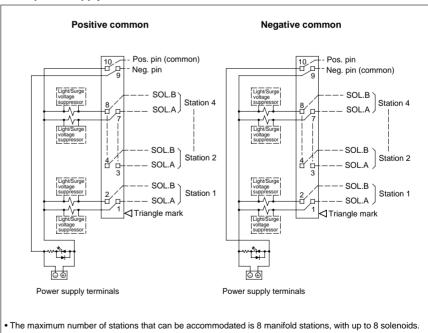
60PH Flat cable type (10 pins)

• Without power supply terminals



 The maximum number of stations that can be accommodated is 9 manifold stations, with up to 9 solenoids.

With power supply terminals



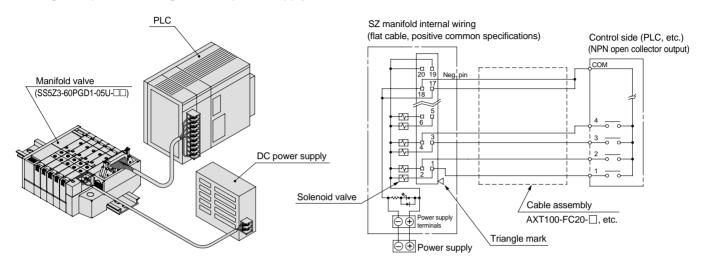
- The circuits above are for the double wiring specification with up to 4 stations. Connect to SOL.A in the case of a single solenoid. Moreover, when wiring instructions are given on a manifold specification sheet, the "A" signal for single and the "A, B" signals for double should be wired in order 1, 2, 3, 4.....etc., without skipping or leaving any connectors remaining.
- Stations are counted starting with station 1 on the D side.
- Since terminal numbers are not indicated on the flat cable, use the triangle mark as a reference when wiring.



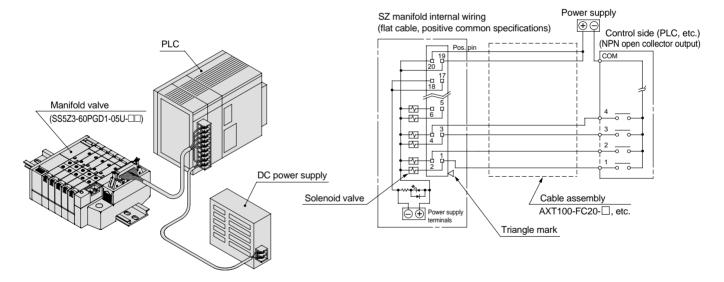
Wiring of Plug-in Type Manifold with Power Supply Terminals (Examples)

• Since the power supply to drive valves with power supply terminals can be supplied from either the control side or the manifold side, these wiring examples should be used for reference when wiring is performed.

1. Wiring example when using manifold power supply terminals



2. Wiring example when not using manifold power supply terminals (power is supplied to the control side or along the wiring, etc.)



⚠ Caution

 When connecting to a PLC (Programmable Logic Controller), etc., wiring such as the signal lines and COM position will differ with each manufacturer. Connections should be made after thoroughly reviewing the electrical circuits of both units in their catalogs or other materials. If connections are made incorrectly, failure may occur not only in the manifolds and valves but also in the PLC (control side) and power supply.

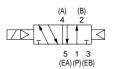


Cassette Type Manifold Series SZ3000

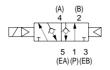
Construction

JIS symbol

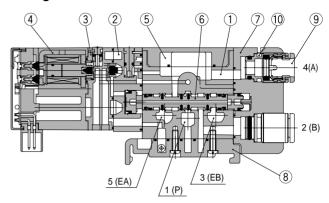
2 position single



2 position single with back pressure check valve



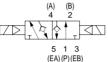
2 position single

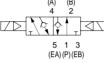


JIS symbol 2 position double

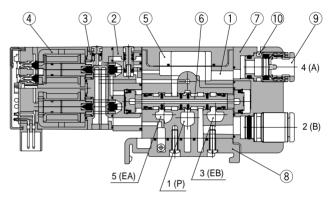
(EA) (P) (EB)

2 position double with back pressure check valve



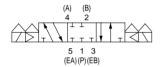


2 position double



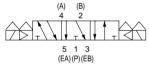
JIS symbol

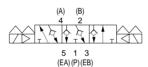
3 position closed center



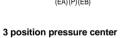
3 position exhaust center

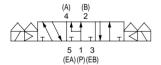
3 position exhaust center with back pressure check valve





3 position closed center/exhaust center/pressure center





(4) 2 (B) 5 (EA) (8)

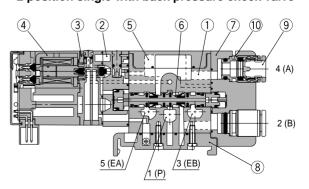
Parts list

No.	Description	Material	Note
1	Body	Zinc die cast	_
2	Adapter plate	PBT	White
3	Pilot body	PA	White
4	Molded coil	_	Gray
5	Body cover	PA	White
6	Spool valve assembly	Aluminum/NBR	-
7	Port block	PA	White
- 8	Bottom cover assembly	_	White

Replacement parts

No	Description	Part no.
9	One-touch fitting	Refer to One-touch fitting part number information on page 51.
10	Clip	SX3000-115-2

2 position single with back pressure check valve

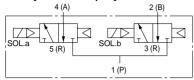




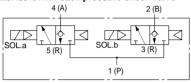
JIS symbol

4 position dual 3 port valve

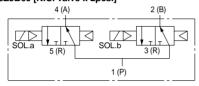
SZ3A60 [N.C. valve x 2pcs.]



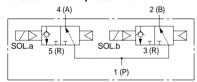
SZ3A60K/With back pressure check valve



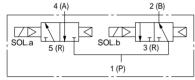
SZ3B60 [N.C. valve x 2pcs.]



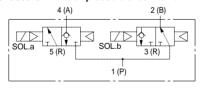
SZ3B60K/With back pressure check valve



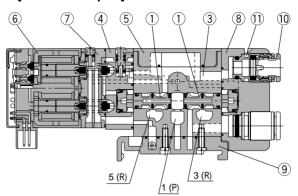
SZ3C60 [N.C. valve, N.O. valve 1pc. each]



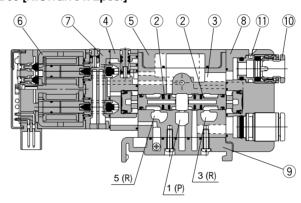
SZ3C60K/With back pressure check valve



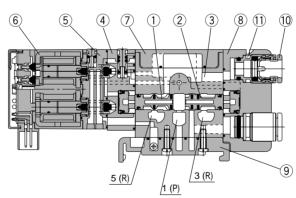
SZ3A60 [N.C. valve x 2pcs.]



SZ3B60 [N.O.valve x 2pcs.]



SZ3C60 [N.C valve, N.O. valve 1pc. each]



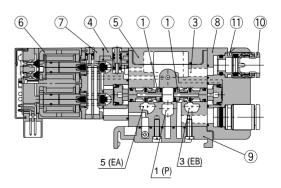
Parts list

No.	Description	Material	Note
1	Spool valve assembly	PA/NBR	For N.C. (normally closed)
2	Spool valve assembly	PA/NBR	For N.O. (normally open)
3	Body	Zinc die cast	_
4	Adapter plate	PBT	White
5	Pilot body	PA	White
6	Molded coil	_	Gray
7	Body cover	PA	White
8	Port block	PA	White
9	Bottom cover assembly	_	White

Replacement parts

No.	Description	Part no.
10	One-touch fitting	Refer to One-touch fitting part number information on page 51.
11	Clip	SX3000-115-2

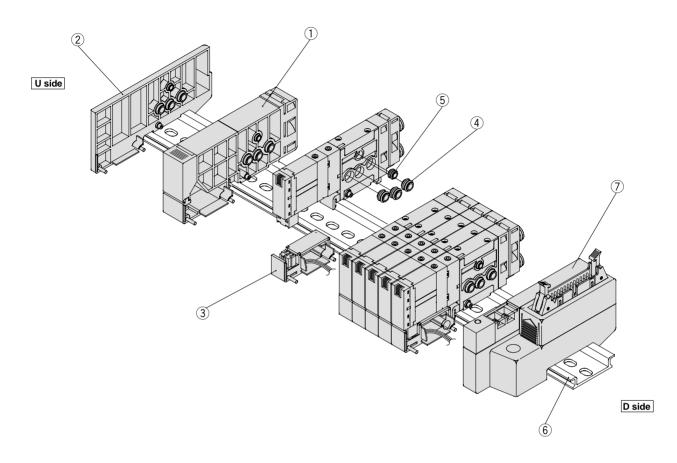
SZ3A60K/With back pressure check valve





Manifold Exploded View

60P manifold (plug-in, flat cable type)



Parts list

No.	Description	Part no.	Note
1	Supply/Exhaust block assembly	SZ3000-50-1A- C8	C6: with ø6 One-touch fitting, C8: with ø8 One-touch fitting
2	End block assembly	SZ3000-53-1A	
3	Housing holder	SX3000-113-1	
4	Bushing assembly	SZ3000-114-3A	
5	Bushing assembly	SZ3000-114-1A	
6	DIN rail	VZ1000-11-1-□	Refer to page 7
7	Connector block assembly	SZ3000-40-□□	Refer to the connector block assembly part no. table below.

Connector block assembly part numbers

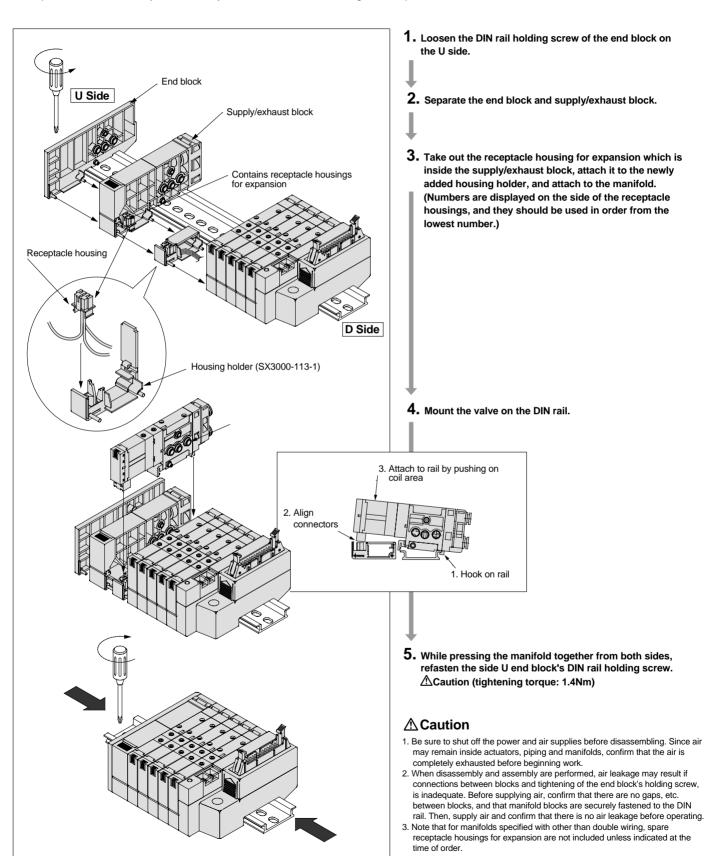
	, ,				
Connector specifications	Mounting	Pai	Note		
Connector specifications	position	Without power supply terminals	With power supply terminals	Note	
For D-sub connector	D side	SZ3000-40-1A-□□D ¹ 2	SZ3000-40-2A-□□D ₂ ¹ - P _N	* 1: Perpendicular connector * 2: Lateral connector P: Positive common	
For flat cable 26 pins	D side	SZ3000-40-3A-□□D ¹ 2	SZ3000-40-4A-□□D ₂ 1-P _N	N: Negative common	
For flat cable 20 pins	D side	SZ3000-40-5A-□□D ¹	SZ3000-40-6A-□□D ₂ -N	The assembly part numbers with power supply terminals are 24VDC specifications. If 12VDC specifications are	
For flat cable 10 pins	D side	SZ3000-40-7A-□□D ¹ 2	SZ3000-40-8A-□□D ₂ -N	required, enter "12" at the end of the assembly part number.	

Note 1) A connector block assembly can be shipped as an assembly only in the case of double wiring. Since the possible number of stations differs depending on the connector type, refer to the valve station section on catalog page 2 and enter the number of stations in the □□ section of the assembly part number. Contact SMC if a connector block assembly is required having a wiring specification other than double wiring.



Plug-in Manifold Station Expansion

- ⚠ Caution In addition to solenoid valves, housing holders (SX3000-113-1) are necessary for expansion of manifold stations.
 - Double wiring specification manifolds which do not have the maximum number of stations, contain spare receptacle housings for expansion in the housing holder of the last station, or inside the supply/exhaust block assembly (for a maximum of 2 stations). When expanding stations, perform the disassembly and assembly of the manifold while referring to the expansion method shown below.

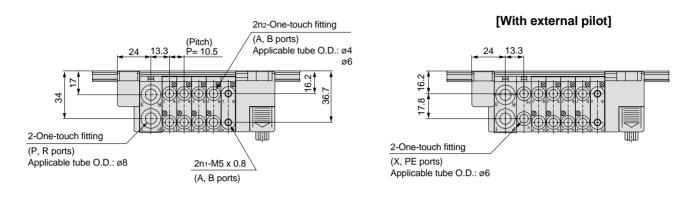


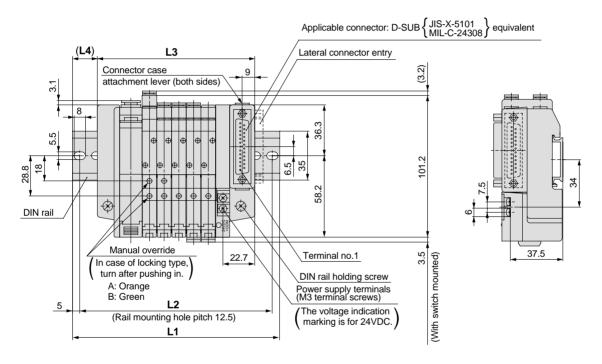


Dimensions/SZ3000: Plug-in

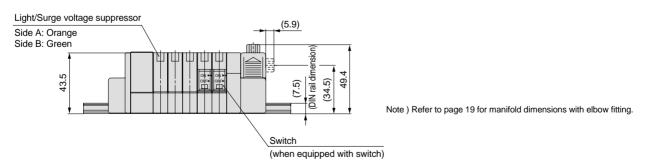
SS5Z3-60FD ¹₂ - Stations U-

Scale: 37%





(Station n) (Station 1)



Internal pilot manifold				L: Din	nensio	ns	n: 8	Stations ((n1 + n2)	
	/	2	3	4	5	6	7	8	9	10
	L1	110.5	123	135.5	148	148	160.5	173	185.5	198
	L2	100	112.5	125	137.5	137.5	150	162.5	175	187.5
	L3	81	91.5	102	112.5	123	133.5	144	154.5	165
	L4	15	16	17	18	12.5	13.5	14.5	15.5	16.5

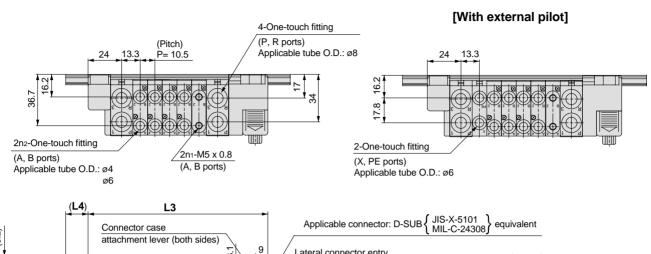
Exte	mal pi	lot ma	nifold	L: Dimensions			n: Stations (n1 + n2)		
<u>L</u> n	2	3	4	5	6	7	8	9	10
L1	123	135.5	148	148	160.5	173	185.5	198	210.5
L2	112.5	125	137.5	137.5	150	162.5	175	187.5	200
L3	91.5	102	112.5	123	133.5	144	154.5	165	175.5
L4	16	17	18	12.5	13.5	14.5	15.5	16.5	17.5

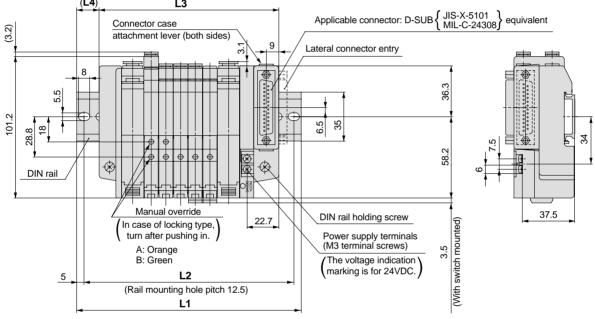


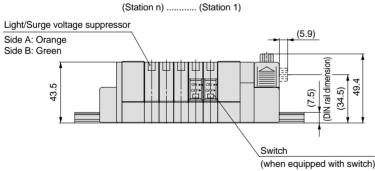
Dimensions/SZ3000: Plug-in

SS5Z3-60FD ¹₂-Stations B-

Scale: 37%







Note) Refer to page 19 for manifold dimensions with elbow fitting.

Internal pilot manifold L: Dimensions

n: Stations (n1 + n2) 14 15 18 20 8 9 10 11 12 13 16 17 19 L1 123 135.5 148 160.5 173 173 185.5 198 210.5 223 235.5 248 248 260.5 273 285.5 298 310.5 310.5 L2 125 137.5 150 162.5 162.5 175 187.5 200 237.5 237.5 250 262.5 287.5 300 300 112.5 212.5 225 275 L3 97 107.5 118 128.5 139 149.5 160 170.5 181 191.5 202 212.5 223 233.5 244 254.5 275.5 286 L4 15 13 14 16 17 12 13 14 15 16 17 12.5 13.5 14.5 15.5 16.5 17.5 12.5 18

External pilot manifold	L: Dimensions
-------------------------	---------------

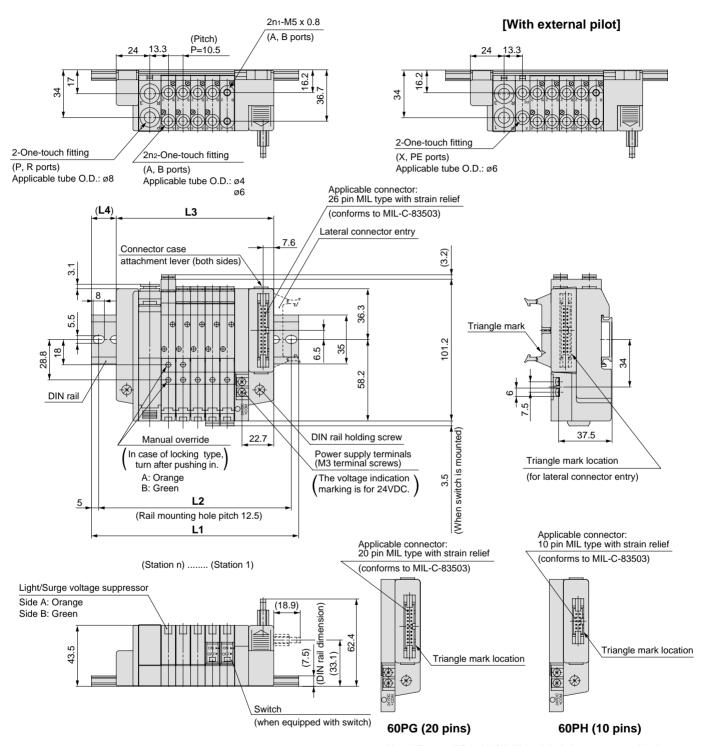
⊨xt	ern	aı pııo	t manı	tola	L: DIM	ensior	าร											n: S	Stations	(n1 + n2)
_	n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	.1	135.5	148	160.5	173	173	185.5	198	210.5	223	235.5	248	248	260.5	273	285.5	298	310.5	310.5	323
L	.2	125	137.5	150	162.5	162.5	175	187.5	200	212.5	225	237.5	237.5	250	262.5	275	287.5	300	300	312.5
L	.3	107.5	118	128.5	139	149.5	160	170.5	181	191.5	202	212.5	223	233.5	244	254.5	265	275.5	286	296.5
L	4	14	15	16	17	12	13	14	15	16	17	18	12.5	13.5	14.5	15.5	16.5	17.5	12.5	13.5

Cassette Type Manifold Series SZ3000

Dimensions/SZ3000: Plug-in

SS5Z3-60PD ¹₂ - Stations U- (26 pins)

Scale: 37%



Note 1) Types 60PG and 60PH differ only in their connectors, and the L1 through L4 dimensions are the same as type 60P.

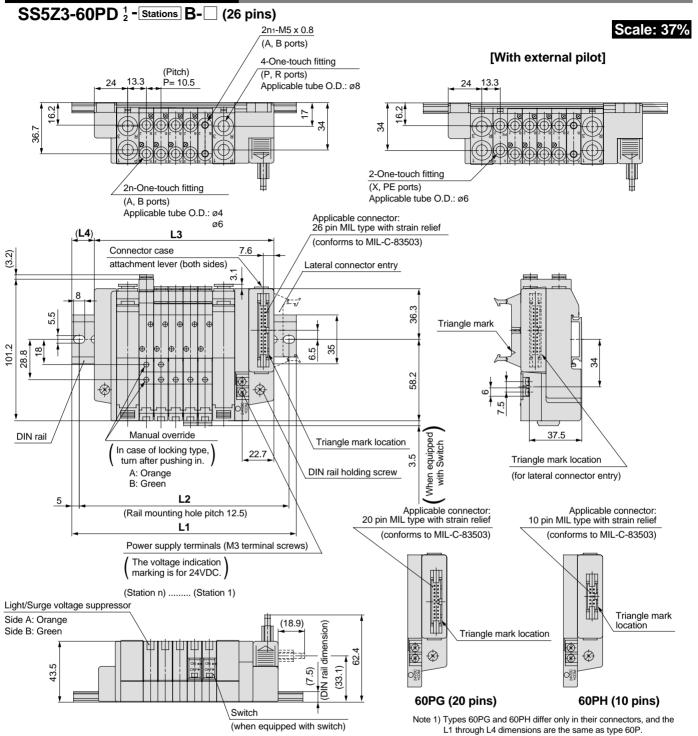
Note 2) Refer to page 19 for manifold dimensions with elbow fitting.

	Inter	nal pil	ot mar	nifold	L: Dir	mensi	ons	n:	Stations	(n1 + n2)
	<u>_</u>	2	3	4	5	6	7	8	9	10
	L1	110.5	123	135.5	148	148	160.5	173	185.5	198
	L2	100	112.5	125	137.5	137.5	150	162.5	175	187.5
L3		81	91.5	102	112.5	123	133.5	144	154.5	165
	L4	15	16	17	18	12.5	13.5	14.5	15.5	16.5

Exte	rnal pi	lot ma	nifold	L: Di	mens	ions	n: S	Stations	(n1 + n2)
<u>l</u>	2	3	4	5	6	7	8	9	10
L1	123	135.5	148	148	160.5	173	185.5	198	210.5
L2	112.5	125	137.5	137.5	150	162.5	175	187.5	200
L3	91.5	102	112.5	123	133.5	144	154.5	165	175.5
L4	16	17	18	12.5	13.5	14.5	15.5	16.5	17.5



Dimensions/SZ3000: Plug-in



Note 2) Refer to page 19 for manifold dimensions with elbow fitting.

Interna	al pilot	manif	old L	.: Dime	ension	S											n:	Stations	(n1 + n2)
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	123	135.5	148	160.5	173	173	185.5	198	210.5	223	235.5	248	248	260.5	273	285.5	298	310.5	310.5
L2	112.5	125	137.5	150	162.5	162.5	175	187.5	200	212.5	225	237.5	237.5	250	262.5	275	287.5	300	300
L3	97	107.5	118	128.5	139	149.5	160	170.5	181	191.5	202	212.5	223	233.5	244	254.5	265	275.5	286
L4	13	14	15	16	17	12	13	14	15	16	17	18	12.5	13.5	14.5	15.5	16.5	17.5	12.3

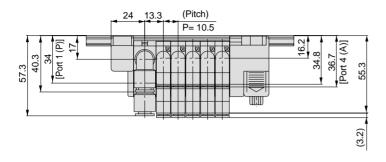
Extern	External pilot manifold L: Dimensions n: Stations (n1 + n2)																		
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	135.5	148	160.5	173	173	185.5	198	210.5	223	235.5	248	248	260.5	273	285.5	298	310.5	310.5	323
L2	125	137.5	150	162.5	162.5	175	187.5	200	212.5	225	237.5	237.5	250	262.5	275	287.5	300	300	312.5
L3	107.5	118	128.5	139	149.5	160	170.5	181	191.5	202	212.5	223	233.5	244	254.5	265	275.5	286	296.5
L4	14	15	16	17	12	13	14	15	16	17	18	12.5	13.5	14.5	15.5	16.5	17.5	12.5	13.5

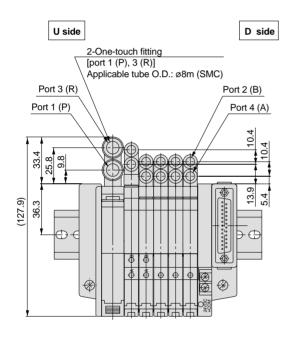
Dimensions with Elbow Fitting/SZ3000: Plug-in, D-Sub Connector

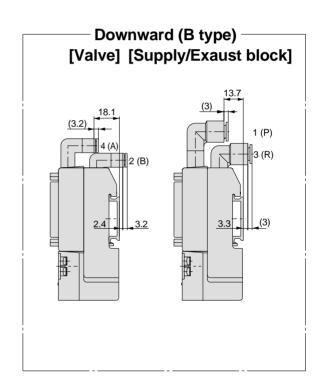
SS5Z3-60F1D - Station D L -

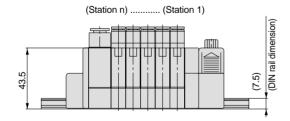
Scale: 37%

(The fitting dimension of the flat cable and non-plug-in types is the same.)







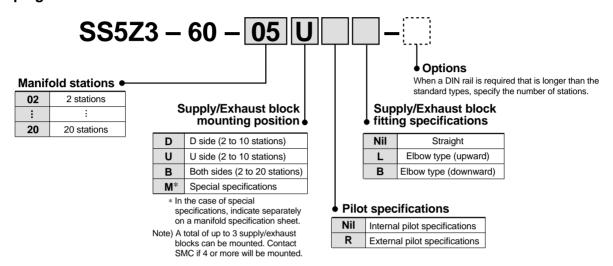


5 Port Solenoid Valve Series SZ3000

Non-Plug-in Type

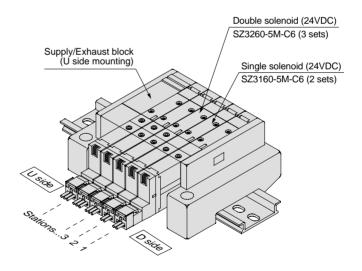
How to Order

Non-plug-in manifold



How to Order Manifold Assemblies (Example)

Example (SZ3000, non-plug-in)

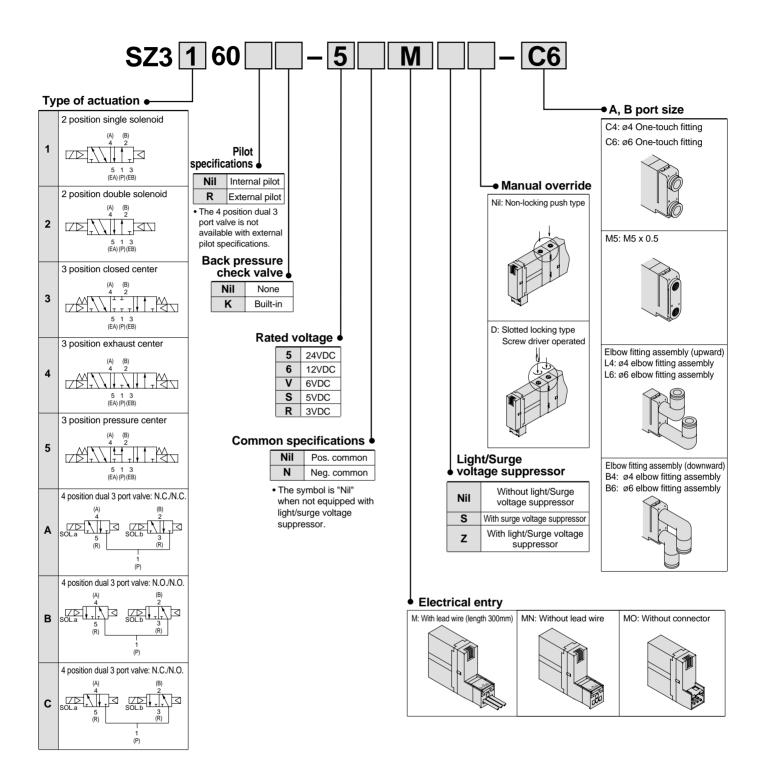


 The * symbol indicates built-in. Put the *symbol at the beginning of the part numbers for solenoid valves, etc. which are to be attached.

- The layout of valves starts with station 1 on the D side.
- Indicate the valves to be attached below the product part number, in order starting from station 1 as shown in the drawing. When a layout becomes complicated, please indicate on a manifold specification sheet. (Manifold specification sheet on page 39.)



How to Order



Manifold Specifications

Model			SS5Z3-60
Manifold typ	е		Non-plug-in type
P (SUP), R (E	EXH) sys	tem	Common SUP, EXH
Valve station	ıs		2 to 20 stations
A, B port pip	ing	Location	Valve
specification	าร	Direction	Lateral, Upward, Downward
Port size	P, E	A, EB ports	C8
Port Size	A/B	ports	C4, C6, M5
	04	P→A/B	3.4 (0.19) [3.0 (0.17)]
Valve Note 2)	C4	A/B→R	3.2 (0.18) [3.2 (0.18)]
effective	00	P→A/B	3.7 (0.21) [3.2 (0.18)]
area mm²	C6	A/B→R	3.9 (0.22) [3.8 (0.21)]
(Cv factor)		P→A/B	3.4 (0.19) [3.2 (0.18)]
	М5	A/B→R	3.2 (0.18) [3.2 (0.18)]
/n: Number of	Weight W (g) Note 3) n: Number of supply/exhaust blocks \ m: Weight of DIN rail		W = 34n + m + 89

Note 1) In cases such as those where many valves are operated simultaneously, use type B (double side supply/exhaust), applying pressure to the P ports on both sides and exhausting from the R ports on both sides.

Note 2) • The value is for manifold base mounting (5 stations). 2 position type with individual operation.

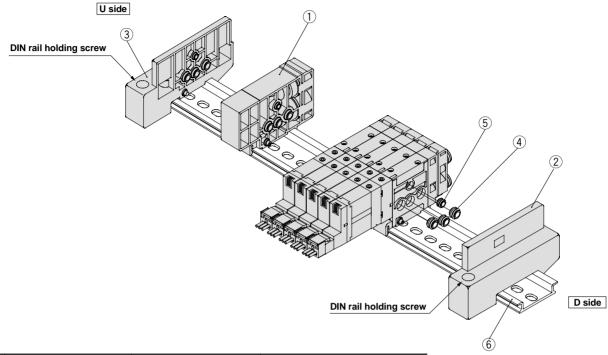
- Values inside [] are for 4 position dual 3 port valves. Furthermore, when the "A" and "B" sides of a 4 position
 dual 3 port valve are operated simultaneously, the value for the Cv factor will be approximately 35% less than
 shown in the table above.
- The Cv factor for a valve with back pressure check valve will be approximately 20% less than shown in the table above.

Note 3) The weight W is the value for the manifold only. To obtain the weight with solenoid valves attached, add the solenoid valve weights given on page 5 for the appropriate number of stations. Refer to page 7 for the weight of DIN rails.



Manifold Exploded View

Type 60 (non-plug-in) manifold



No.	Description	Part no.	Note
	Supply/Exhaust block	C72000 FO OA C6	C6: With ø6 One-touch fitting
1	assembly	SZ3000-50-2A-C8	C8: With ø8 One-touch fitting
2	End block assembly	SZ3000-53-3A	For D side
3	End block assembly	SZ3000-53-4A	For U side
4	Bushing assembly	SZ3000-114-3A	
5	Bushing assembly	SZ3000-114-1A	
6	DIN rail	VZ1000-11-1-□	Refer to page 7.

Manifold station expansion Station expansion is possible at any position.

- 1. Loosen one DIN rail holding screw on either the U side or D side.
- 2. Separate the blocks at the location where station expansion is desired.
- 3. Mount the valve on the DIN rail.
- 4. While pressing the manifold together from both sides, retighten the DIN rail holding screw of the end block assembly which was loosened.

△Caution (tightening torque: 1.4N·m)

△ Caution

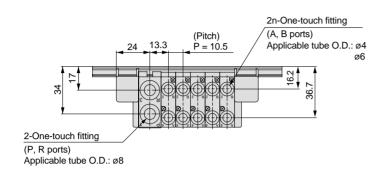
- Be sure to shut off the power and air supplies before disassembling. Since air may remain inside actuators, piping and manifolds, confirm that the air is completely exhausted before beginning work.
- 2. When disassembly and assembly are performed, air leakage may result if connections between blocks and tightening of the end block's holding screw are inadequate. Before supplying air, confirm that there are no gaps between blocks, and that manifold blocks are securely fastened to the DIN rail. Then, supply air and confirm that there is no air leakage before operating.



Dimensions/SZ3000: Non-plug-in

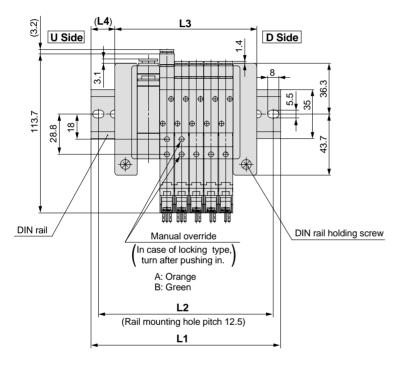
SS5Z3-60 - Stations U

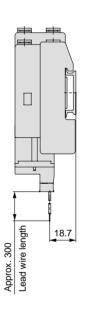
Scale: 37%



6.2 2-One-touch fitting (X, PE ports)

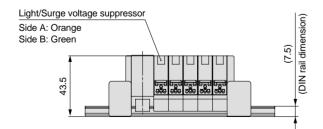
[With external pilot]





Applicable tube O.D.: ø6

(Station n) (Station 1)



Note) Refer to page 19 for manifold dimensions with elbow fitting.

Internal pilot manifold L: Dimensions

Inter	nal pil	ot mar	nifold	L: Dir	nensic	ns		n:	Stations
_ _	2	3	4	5	6	7	8	9	10
L1	98	110.5	123	135.5	135.5	148	160.5	173	185.5
L2	87.5	100	112.5	125	125	137.5	150	162.5	175
L3	70	80.5	91	101.5	112	122.5	133	143.5	154
L4	14	15	16	17	12	13	14	15	16

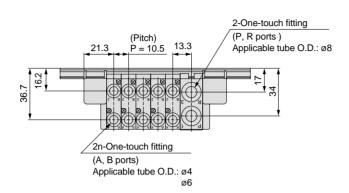
Exte	nal pi	lot ma	nifold	L: Di	mensi	ons		n:	Stations
	2	3	4	5	6	7	8	9	10
L1	110.5	123	135.5	135.5	148	160.5	173	185.5	198
L2	100	112.5	125	125	137.5	150	162.5	175	187.5
L3	80.5	91	101.5	112	122.5	133	143.5	154	164.5
11	15	16	17	12	12	1/	15	16	17



Dimensions/SZ3000: Non-plug-in

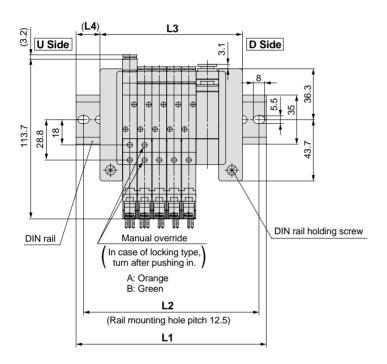
SS5Z3-60 - Stations D

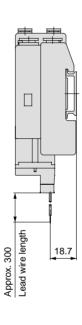
Scale: 37%



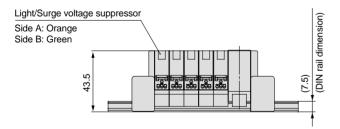
2-One-touch fitting (X, PE ports) Applicable tube O.D.: Ø6

[With external pilot]





(Station n) (Station 1)



Note) Refer to page 19 for manifold dimensions with elbow fitting.

Interi	nal pile	ot man	iifold	L: Din	nensio	ns		n:	Stations
7	2	3	4	5	6	7	8	9	10
L1	98	110.5	123	135.5	135.5	148	160.5	173	185.5
L2	87.5	100	112.5	125	125	137.5	150	162.5	175
L3	70	80.5	91	101.5	112	122.5	133	143.5	154
L4	14	15	16	17	12	13	14	15	16

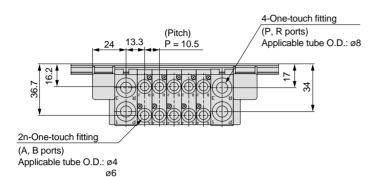
Exte	rnal pi	lot ma	nifold	L: Dii	mensi	ons		n:	Stations
<u>L</u>	2	3	4	5	6	7	8	9	10
L1	110.5	123	135.5	135.5	148	160.5	173	185.5	198
L2	100	112.5	125	125	137.5	150	162.5	175	187.5
L3	80.5	91	101.5	112	122.5	133	143.5	154	164.5
L4	15	16	17	12	13	14	15	16	17

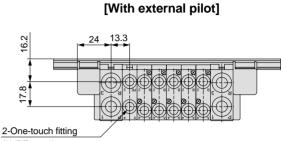


Dimensions/SZ3000: Non-plug-in

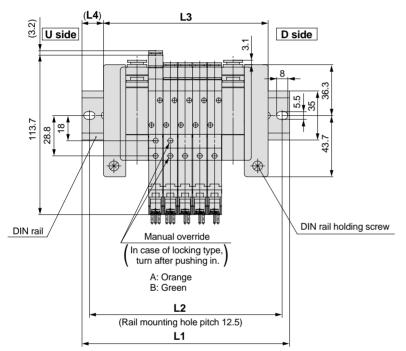
SS5Z3-60 - Stations B

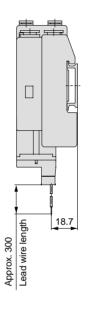
Scale: 37%



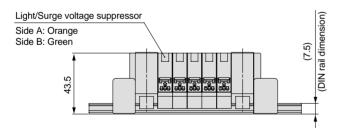


(X, PE ports) Applicable tube O.D.: ø6





(Station n).....(Station 1)



Note) Refer to page 19 for manifold dimensions with elbow fitting.

Internal pilot manifold L. Dimensione

intern	internal pilot manifold L: Dimensions n: Stations																		
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	110.5	123	135.5	148	160.5	173	173	185.5	198	210.5	223	235.5	235.5	248	260.5	273	285.5	298	310.5
L2	100	112.5	125	137.5	150	162.5	162.5	175	187.5	200	212.5	225	225	237.5	250	262.5	275	287.5	300
L3	86	96.5	107	117.5	128	138.5	149	159.5	170	180.5	191	201.5	212	222.5	233	243.5	254	264.5	275
L4	12	13	14	15	16	17	12	13	14	15	16	17	12	13	14	15	16	17	18

External	pilot	manifol	d L:	Dime	ensions
----------	-------	---------	------	------	---------

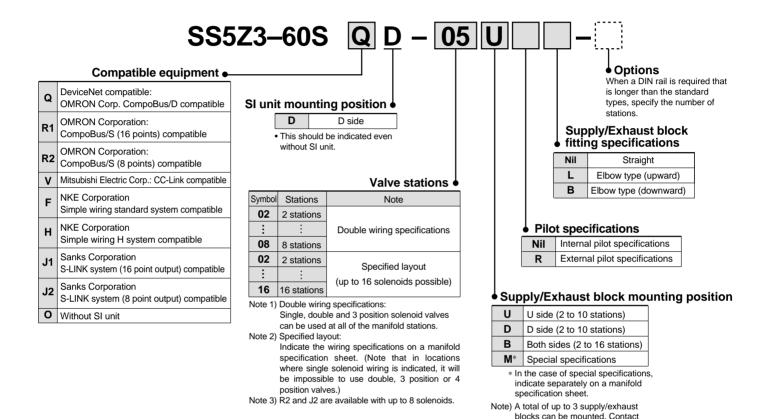
Exterr	external pilot manifold L: Dimensions n: Stations																		
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	123	135.5	148	160.5	173	173	185.5	198	210.5	223	235.5	235.5	248	260.5	273	285.5	298	310.5	310.5
L2	112.5	125	137.5	150	162.5	162.5	175	187.5	200	212.5	225	225	237.5	250	262.5	275	287.5	300	300
L3	96.5	107	117.5	128	138.5	149	159.5	170	180.5	191	201.5	212	222.5	233	243.5	254	264.5	275	285.5
L4	13.5	14.5	15.5	16.5	17.5	12	13	14	15	16	17	12	13	14	15	16	17	18	12.5



60S□

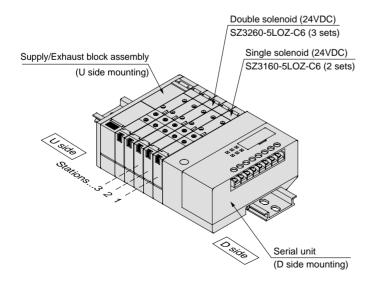
5 Port Solenoid Valve Series SZ3000 Serial Transmission Type

How to Order



How to Order Manifold Assemblies (Example)

Example (OMRON Corporation compatible serial unit)



	SS5Z3-60SRID-05U-C6 1 set (manifold part number)	
>	SZ3160-5LOZ-C6 2 sets (single solenoid part number)	
>	SZ3260-5LOZ-C6 3 sets (double solenoid part number)	

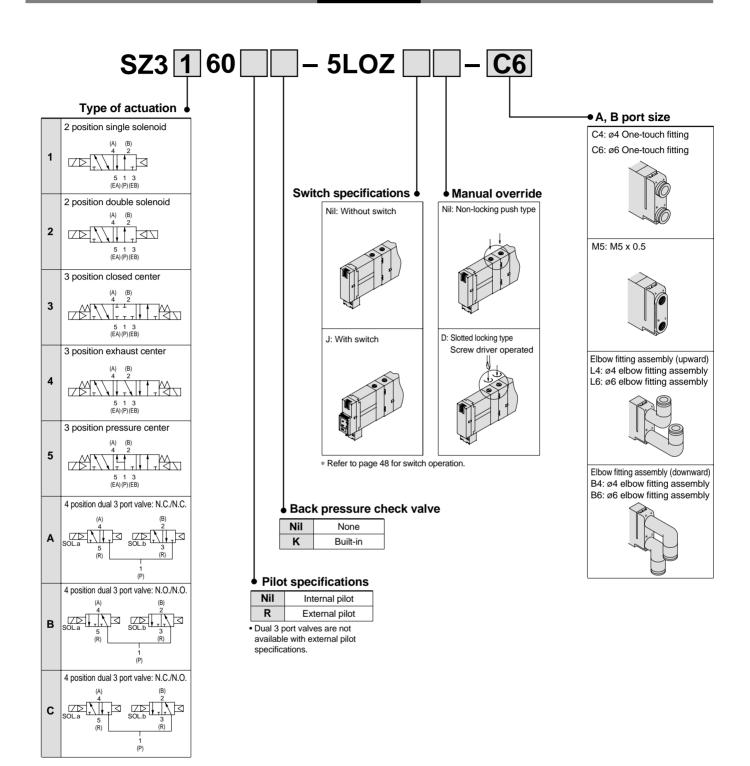
SMC if 4 or more will be mounted

- The ** symbol indicates built-in. Put the ** symbol at the beginning of the part numbers for solenoid valves, etc., which are to be installed.

- The valve layout starts with station 1 on the D side.
- Indicate the valves to be installed below the product part number, in order starting from station 1 as shown in the drawing. When a layout becomes complicated, please indicate on a manifold specification sheet. (Manifold specification sheet on page 41.)



How to Order





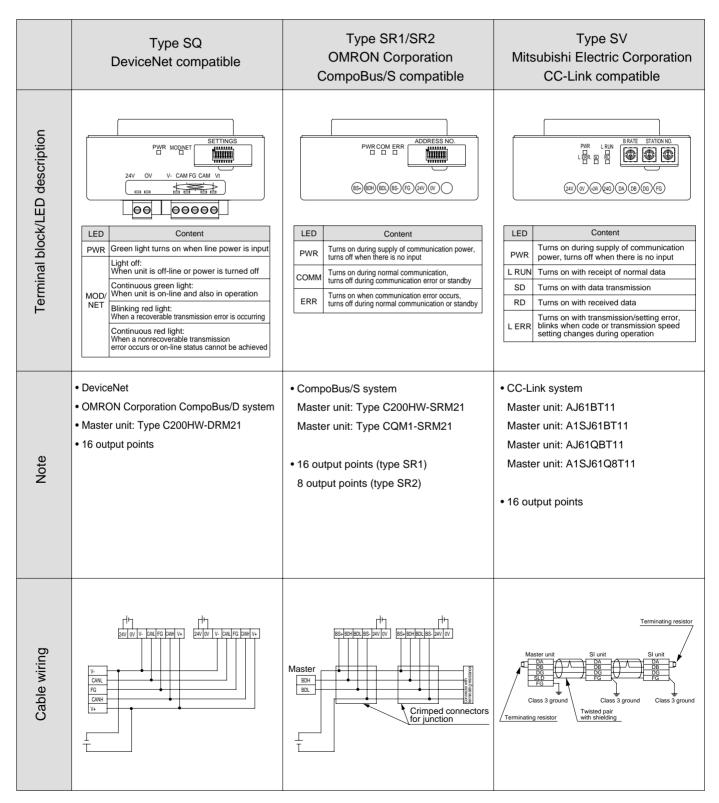
Specifications

Specifications

External power supply	24VDC±10%			
Current consumption (within unit)	0.1A	F, H, J1, J2 Q, R1, R2, V		

SI unit part numbers

Symbol	Specifications	Part no.
Q	DeviceNet compatible: OMRON Corp. CompoBus/D compatible	EX140-SDN1
R1	OMRON Corporation: CompoBus/S (16 points) compatible	EX140-SCS1
R2	OMRON Corporation: CompoBus/S (8 points) compatible	EX140-SCS2
V	Mistubishi Electric Corporation: CC-Link compatible	EX140-SMJ1

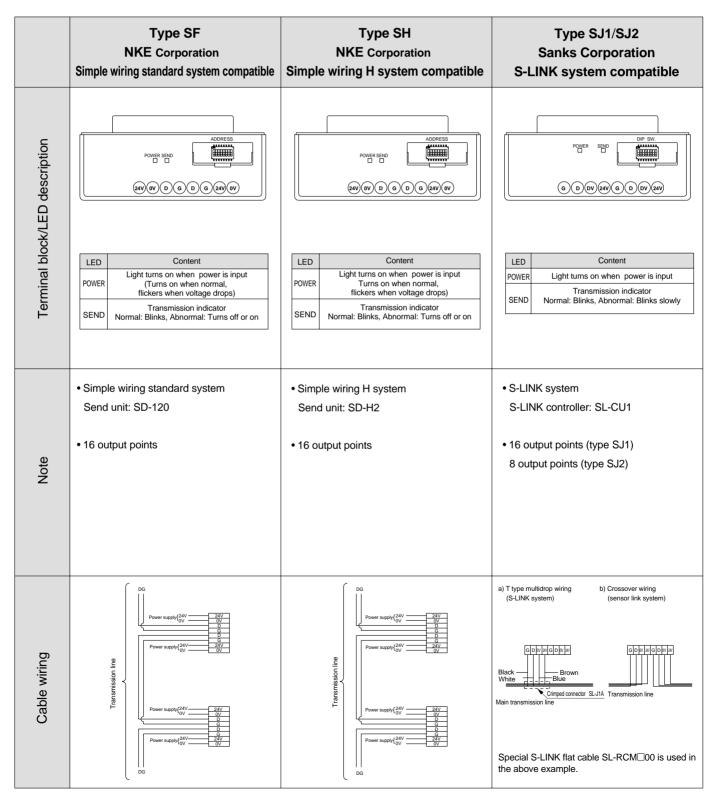




Cassette Type Manifold Series SZ3000

SI unit part numbers

Symbol	Specifications	Part no.
F	NKE Corporation: Simple wiring standard system compatible	EX140-SUW1
Н	NKE Corporation: Simple wiring H system compatible	EX140-SUH1
J1	Sanks Corporation: S-LINK system (16 point output) compatible	EX140-SSL1
J2	Sanks Corporation: S-LINK system (8 point output) compatible	EX140-SSL2



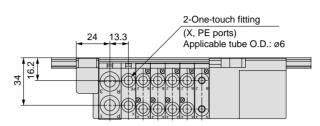


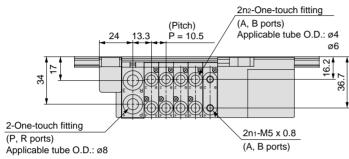
Dimensions/SZ3000: Serial Transmission Type

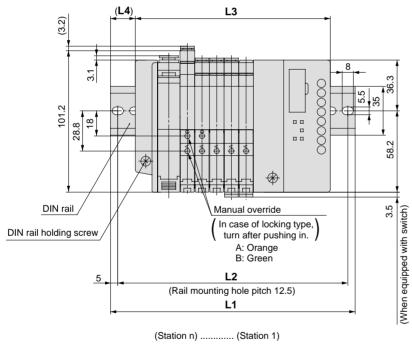
SS5Z3-60S D-Stations U

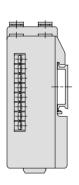
Scale: 37%

[With external pilot]









Light/Surge voltage suppressor Side A: Orange Side B: Green 43.5

Note) Refer to page 19 for manifold dimensions with elbow fitting.

(when equipped with switch)

Inter	nal pil	ot mai	nifold	L: Di	mensi	ons	n: Stations (n1 + n2)			
<u>L</u> n	n 2 3 4				6	7	8	9	10	
L1	135.5	148	160.5	173	185.5	185.5	198	210.5	223	
L2	125	137.5	150	162.5	175	175	187.5	200	212.5	
L3	108	118.5	129	139.5	150	160.5	171	181.5	192	
L4	14	15	16	17	18	12.5	13.5	14.5	15.5	

Ext	tei	mal pi	n : Stations (n ₁ + n ₂)							
	/5	2	3	4	5	6	7	8	9	10
Ľ	1	148	160.5	173	185.5	185.5	198	210.5	223	235.5
L	2	137.5	150	162.5	175	175	187.5	200	212.5	225
L:	3	118.5	129	139.5	150	160.5	171	181.5	192	202.5
L	4	15	16	17	18	12.5	13.5	14.5	15.5	16.5

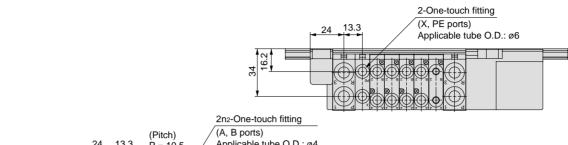


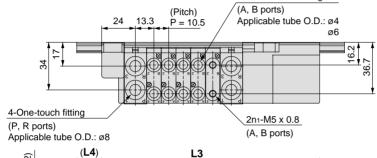
Dimensions/SZ3000: Serial Transmission Type

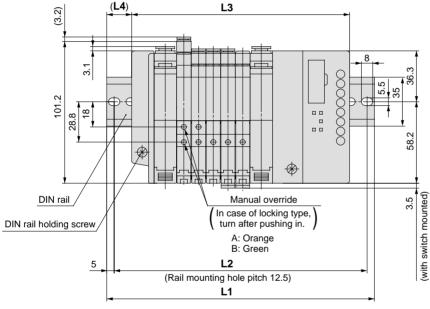
SS5Z3-60S D- Stations B

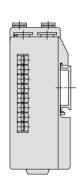
Scale: 37%

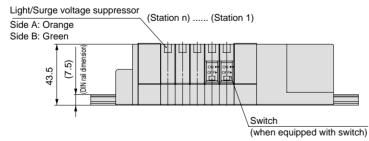
[With external pilot]











17

12

Note) Refer to page 19 for manifold dimensions with elbow fitting.

Inter	nal pilo	t manif	old L:	Dimen	sions		n	: Stations
L	2	3	4	5	6	7	8	9
L1	148	160.5	173	185.5	198	210.5	210.5	223
L2	137.5	150	162.5	175	187.5	200	200	212.5
L3	124	134.5	145	155.5	166	176.5	187	197.5

16

<u>_</u>	10	11	12	13	14	15	16
L1	235.5	248	260.5	273	285.5	285.5	298
L2	225	237.5	250	262.5	275	275	287.5
L3	208	218.5	229	239.5	250	260.5	271
L4	14	15	16	17	18	12.5	13.5

14

L4 12

	External pilot manifold L: Dimensions n: Station													
Ì	_ 	2	3	4	5	6	7	8	9					
	L1	160.5	173	185.5	198	210.5	210.5	223	235.5					
	L2	150	162.5	175	187.5	200	200	212.5	225					
	L3	134.5	145	155.5	166	176.5	187	197.5	208					
	L4	13	14	15	16	17	12	13	14					

<u>_</u>	10	11	12	13	14	15	16
L1	248	260.5	273	285.5	285.5	298	310.5
L2	237.5	250	262.5	275	275	287.5	300
L3	218.5	229	239.5	250	260.5	271	281.5
L4	15	16	17	18	12.5	13.5	14.5



Cautions on the use of manifold valve specification sheets

Enter the connector entry direction.

direction can also be changed later.

This determines the direction when shipped. The

Does not need to be entered for the non-plug-in type.

When using manifold valve specification sheets for ordering, be sure to read the cautions below.

1 Entering the manifold model

Boxes with solid lines ☐ must be filled in.

Example: SS5Z3-60PGD1-05M-P (Supply/Exhaust block mounting position special specifications)

for the plug-in type.

- Enter the supply/exhaust block assembly mounting position.
- This specifies positions of P and R ports. They can be located on the U side, D side or both sides. However, 11 or more stations require positions on both sides.
 - If a manifold with supply/exhaust blocks on one side (U/D side) is required for 11 stations or more, indicate this as a special specification. Also note that in cases where many valves operate simultaneously, supply and exhaust may become inadequate for proper valve performance.

Enter for external pilot specifications.

- Does not need to be entered for internal pilot specifications.
 - for the supply/exhaust block assembly or external pilot block assembly.
 - downward.
 - Does not need to be entered for straight type.

• Standard type SS5Z3-60

• Special specifications SS5Z3-60 PG D

Enter the connector type.
 D-sub connector and flat cable connector are available

Does not need to be entered for the non-plug-in type.

• Enter an "X" for the manifold type to be used. When the following types of supply/exhaust block or external pilot block assembly specifications are required, order as special specifications.

- * When mounting positions other than the standard U/D/B are required.
- When port sizes other than the standard types are required.
- * When both straight and elbow type fittings are required.

Port size

	Standard type	Special specification port sizes
Supply/exhaust block assembly	C8, L8, B8	C8, L8, B8, C6, L6, B6
External pilot block assembly	C6, L6, B6	C6, L6, B6, C4, L4, B4

SZ3 * 60 *

Note) Indicate with "O" or C6, L4, etc., in the station table

• Enter if elbow type fitting is required

- Elbow types are available facing upward or

Enter the number of valve stations.

05

- * In case of the plug-in type, depending on the type of connector and the presence of a power terminal, there is a limit to the number of stations (solenoids) that are possible. Refer to catalog page 7, and make selections so that the maximum number of stations is not exceeded.
- The maximum number of stations for the non-plug-in type is 20 stations.

power supply terminals.

Options

- * Enter when a DIN rail longer than standard is required.
- Can be specified up to a maximum of 20 stations.
- * Does not need to be entered in case of standard length.
- When a longer DIN rail is indicated, the U side is extended.

Boxes with solid lines \square must be filled in.

Enter when a power supply terminals are required. * Positive and negative commons are available for

both 24 and 12VDC. Does not need to be entered in cases without

Entering the valve model

 Type of actuation * Indicate in the station table. Pilot system * Indicate in the station table.

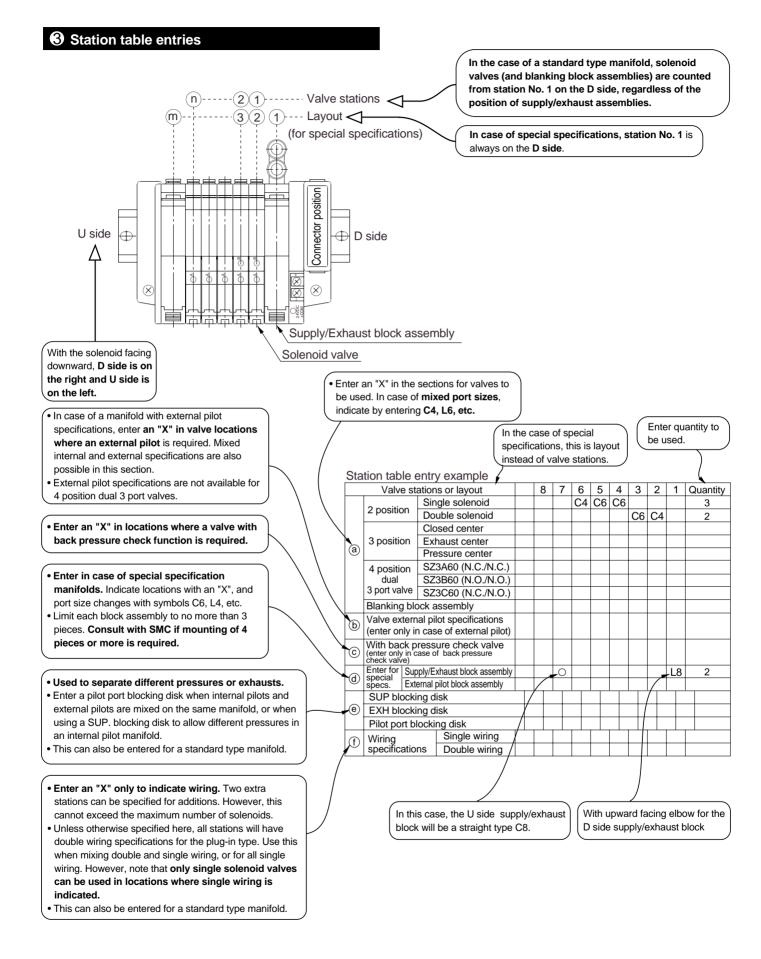
- * When an external pilot valve is to be used,
- enter an "X" in section (b) of the station table
- External pilot specifications are not available for 4 position dual 3 port valves
- Does not need to be entered for internal pilot specifications.
- With back pressure check valve
- * Indicate in the station table.
- * When a valve with back pressure check valve is to be used, enter an "x" symbol in section (c) of the station table
- * Back pressure check valve is not available with 3 position closed center and 3 position pressure center.
- Does not need to be entered for a valve without back pressure check valve
- · Enter the rated voltage.
- * When using a plug-in manifold with power supply terminals, be sure to conform with the manifold voltage specifications.

- - Enter the A, B port size.
 - In case of mixed port sizes, enter "M" in this section and C4, L6, etc., respectively in section (a) of the station
- Enter the manual override type.
- * Does not need to be entered for non-locking push type.
- Enter the switch specifications.
- * Enter when equipped with switches.
- * Not applicable to non-plug-in type.
- * Does not need to be entered when switches are not required.

• Enter the common specifications.

- When using a plug-in manifold with power supply terminals, be sure to conform with the COM specifications.
- Does not need to be entered for a positive common.





Please copy this page for use without removing it.	Date /	/
\$73000: Cassette Type	Company name	
SZ3000: Cassette Type	Contact	
Plug-in manifold	Specification sheet no.	
Manifold Valve Specification Sheet	t Order no.	
⚠ Caution Be sure to read "Cautions on the use of manifold valve specification sheets" on pages 34 and 35 before making entries.	Equipment name	
Make entries in order from (1) to (3).	s. Quantity set (s) Date required Supply/Exhaust block Pilot system Supply/Exhaust block Pilot system Supply/Exhaust block	k accombly
1 How to Order Manifolds	assembly mounting position Symbol Specifications Symbol Specifications	
Enter the symbols for the required specifications in the blanks below	Symbol position stations U U uside 2 to 10 stations D Extracely list prescription Nil Straight Nil Straight	
, , ,	D D side 2 to 10 stations B Both sides 2 to 20 stations In case of R, external pilot block will be added. L Elbow One-touch fitti	- ,
Enter an "X" for the manifold type to be used		
Standard type SS5Z3-60		
• Special specifications SS5Z3-60	<u> </u>	
Symbol Connector type Symbol Connector type Connector Valve	Power supply terminals Ve stations Nil None When a DIN rail When a DIN rail	is required
F D-sub connector, 25 pins mounting direction Symbol Mauring position		specify the
PG Flat cable connector, 20 pins 1 Perpendicular 2 Lateral 20 2	i block and external pilot block in the station table below. N 24VDC Neg. common stations (N) 24VDC Neg. common station table below.	ilis. (Iviax. 20
PH Flat cable connector, 10 pins		tations
How to Order Valves	_ 	al specifications)
Enter the symbols for the required specifications in the blanks below	ow. A Rated voltage	D side
SZ3 * 60 * * — LOZ	5 24VDC 6 12VDC	D side
	B COM specifications	oply/Exhaust
	Nil Positive common N Negative common E A, B port size	ck assembly
1 2 position single solenoid 2 2 position double solenoid R External pilot K	None Built-in C Switch specifications C4 Ø4 One-touch fitting	
3 3 position closed center When an external pilot valve When a valve	ve with back Nil Without switch Ve with back NE M5 V 0.8	
5 3 position pressure center section (b) of the station table enter an "X" in the station table section (b) of the station table enter an "X" in the station table section (b) of the station table enter an "X" in the station table section (b) of the station table enter an "X" in the station table section (b) of the station table enter an "X" in the station table enter an "X" in the station table section (b) of the station table enter an "X" in t	"in section (c) of L4 Ø4 elbow One-touch fitting (,
A 4 position dual 3 port valve (N.C./N.C.) B 4 position dual 3 port valve (N.O./N.O.) able for 4 position dual 3 port valve (N.O./N.O.)	Nil Non-locking push type B4 Ø4 elbow One-touch fitting ((downward)
C 4 position dual 3 port valve (N.C./N.O.) valves.	D Slotted locking type Screw driver operated B6 Ø6 elbow One-touch fitting (M) Mixed	(downward)
Station Table		
Indicate the layout of valves, etc., by entering "X's".		
When the port sizes for each block assembly are mixed or special		
Single solenoid	19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	Quantity
2 position Double solenoid		
Closed center 3 position Exhaust center		
Pressure center		
4 position dual SZ3A60 (N.C./N.C.) SZ3B60 (N.O./N.O.)		
3 port valve SZ3C60 (N.C./N.O.)		
Blanking block assembly External pilot specifications		
(enter only in case of external pilot) With back pressure check valve (enter only		
in case of back pressure check valve) Note 1) Finter for Supply/Exhaust block assembly		
d) special specs. External pilot block assembly		
SUP blocking disk © EXH blocking disk		
Pilot port blocking disk Note 2)		
(f) Wiring Single wiring Double wiring		
[Note] • SUP blocking disk: SZ3000-114-4A • Supply/Exhaust block	ock assembly (ø8): SZ3000-50-1A-C8 • Supply/Exhaust block assembly (elbow upward): SZ3000-5	
Blanking block assembly: SZ3000-55-1A External pilot block a	ock assembly (ø6): SZ3000-50-1A-C6 * Supply/Exhaust block assembly (elbow downward): SZ3000-54: assembly (ø6): SZ3000-54-1A-C6 * External pilot block assembly (elbow upward): SZ3000-54-	1A-L4/L6
Pilot port blocking disk: SZ3000-114-2A External pilot block a Note) The symbols at the end of supply/exhaust block and external pilot block:	s assembly (ø4): SZ3000-54-1A-C4 • External pilot block assembly (elbow downward): SZ3000-5 k assembly part numbers indicate the port sizes	54-1A-B4/B6
, , ,	ction below for SMC use only	
Enter the ordered part humbers.		1

Part no. Quantity

Part no.	Quantity

Order no.	
Clerk (code no.)	
Branch code	

Note) In case of special specifications, enter the part number and quantity for supply/exhaust block and external pilot block assemblies together with the manifold type.

Please	copy thi	s page for use without re	emovi	ng it.																			D	ate	/		/
SZ	SZ3000: Cassette Type				Company name																						
	Non-plug-in manifold					onta																					
			:c: _		! ~							H-		ication	she	et no.											
war	nitoid	d Valve Spec						ετ				-	der														
∆ Ca	aution	Be sure to read "Cautions on specification sheets" on page	the us s 34 a	e of m nd 35	anito befor	ld valve e makin	g entr	ies.				-		ment n	ame	9											
Make	entries	in order from (1) to	(3).									Qı	uanti	ity						set (s)	Date	req	uired	t		
		O Order Manifold		ons in	n the	blank	s bel	OW.			Syr		Mo po U D	chaus mounting ounting osition side side h sides	2	Applic station to 10 s to 10 s	able ns ation ation	IS IS	• In	mbo Nil R case	Sta Ext of R,	ernal extern	d/Inte	spec t block	ificati k will b	pecif ons e add	
	● Sta	ndard type S	S 5	Z	3-6	60									Į.				Sy	mbo Nil L B	Stra	aight ow O	S _l	oecific	cation	(upw (dow	nward)
\Box	Spec	ial specifications S	S 5	Z	3-6	60				N				_	-		-					((i) 			Ì	Max. 20 stations) /alve stations Layout /for special
	How to	ter an "X" for the nifold type to be used. O Order Valves ols for the required spec		Symb 02 : 20	20	Stations Stations station :) station	s s ns	low.	_		Indica suppl	ate po y/exh nal pil	sition aust l	block ar	nd	VVI rec lor sta sp nu tio	nen a quired ger the ndard ecify to mber	of sta- lax. 20	,	J side	e 	*				-	pecifications) D side
SZ	3 * (60 * * —	l			ll.	∦		<u> </u>	-			(ВС					าร				iii	iii ii			
	\overline{T}	TT 'z	ᆜ∶ ₋ ∖ (1-∹ι Β)	C	┛┶┒)(□		(E)	-	(F	<u> </u>			Nil N	_	s. con									erric		
Valve	actuation	on type Pilot sy		_	<u>U</u>] Baci	/	ssu	re	Œ)		(C El	ect	rical	enti	ry							push t g type,		driver operated
1 2 pos 2 2 pos 3 3 pos 4 3 pos 5 3 pos A 4 pos B 4 pos C 4 pos	sition single sition doubl sition close sition exhan sition press sition dual 3 po sition dual 3 po sition dual 3 po n the station	solenoid e solenoid d center ust center Solenoid When an ext is to be used	Internal piternal pit	al pilot al pilo lot valv an "X" ation ta ternal re not	t /e in ble	Nil K When a back pre valve is an "X" ir the stati below.	valve essure used, n section	one uilt-in with check enter on (c)	,	5 6 V	24VI 12VI 6VD 5VD 3VD	ge DC DC C C		MN PMO C	ht/S W vo W su	ector	Withouthouthouthouthouthouthouthouthouthou	surge resso oltage	d wire necto	r	C4 C6 M5 L4 L6 B4 B6	ø6 M5 ø4 ø6 ø4	One- One- x 0.8 elbow elbow elbow	touch touch 3 / One / One / One	h fittin h fittin -touch -touch -touch	g n fitting n fitting	g (upward) g (upward) g (downward) g (downward)
		out of valves, etc., by en				od or	enoc	ial c	nacit	ficatio	one	indi	cate	a with	no	rt ciz	2 61/	mho	le C	4 C	6 ot	•					
VIIICII		stations or layout			11117		_					_		4 13					8	7, 0	6	5	4	3	2	1	Quantity
2,	position	Single solenoid																									
	position	Double solenoid																									
,	nocition	Closed center Exhaust center	_	+									\vdash										-				
(a)	position	Pressure center	+	+					+				+										\vdash				
4	position	SZ3A60 (N.C./N.C.)											t														
	dual	SZ3B60 (N.O./N.O.)																									
□ Fx	oort valve ternal pil	SZ3C60 (N.C./N.O.) ot specifications	\dashv	+	+			-	-			-	+	-									\vdash	-			
(er	nter only	in case of external pilot)																									
(ent	iter only in ca	sure check valve ase of back pressure check valve)																									
(a) sp	eciai —	upply/Exhaust block assembly ternal pilot block assembly																									
	UP block	· · · · · ·		Т					1				1		Т				Τ				1				
	XH block	•																									
		olocking disk Note 2)				nh.//		hl- '			(~0)	270	200	FO 22 1								h. ("				20000	50.04.107.5
• E • F Note) Th	EXH block Pilot port b	ing disk: \$Z3000-114-4A ing disk: \$Z3000-114-4A (2pi locking disk: \$Z3000-114-2A s at the end of supply/exhau		ation)	• Sup • Ext • Ext	ernal pi ernal pi	naust lot blo lot blo ot blo	block ock as ock as ock as	asse semb semb semb	mbly bly (øt bly pa	(ø6): 6): SZ 4): SZ art nu	SZ30 3000 3000 mbe	000-5 0-54- 0-54- rs inc	50-2A-0 2A-C6 2A-C4	C6 the p	• Supp • Exte	oly/Ex rnal p rnal p	chaust pilot b	block lock a	asser	mbly nbly ((elbo (elbov	w dov v upv	· vnwar vard):	d): SZ SZ30	3000 00-5	-50-2A-L6/L8 -50-2A-B6/B8 4-2A-L4/L6 -54-2A-B4/B6
⊑nter tr	ne order	ed part numbers. Part no.		Опа	antity	,	Г	Т				-	art ı	no				Quai	ntitv]		rder	no				
		i aitiio.		Que	ai iuli)		\vdash	+					aiti	110.			\dashv	<u> </u>	ary		\vdash	lerk (no.)			
																					\vdash	ranc					
																					No						cifications,
																						fc e:	r sup xtern	ply/e al pilo	xhau: ot blo	st blo ck as	and quantity ck and semblies ifold type.

Note) In case of special specifications, enter the part number and quantity for supply/exhaust block and external pilot block assemblies together with the manifold type.

Series SZ3000 Order Made Specifications

Contact SMC for detailed specifications, lead times and prices.

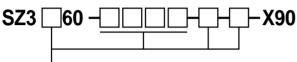


Main Valve Fluororubber Specifications -X90

Fluororubber specifications are used for the rubber parts of the main valve, making possible the following types of applications.

- When operated with lubrication other than the recommended turbine oil, and malfunction occurs due to swelling of the spool valve seal, or there is a possibility of this occurring.
- 2. When ozone enters or is generated in the air supply.

Part No.



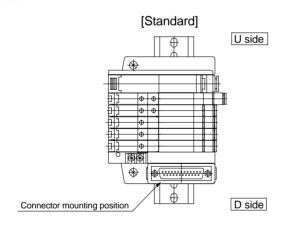
Make entries in the same way as for standard models.

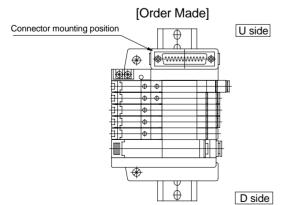
Specifications and performance are the same as those of standard models.

Note) Please note that in the -X90 series only the rubber parts of the main valve have fluororubber specifications, and it cannot be used for heat resistant applications.

Plug-in Manifold Connector and Serial Unit Mounted on Side D

Products are also available with the plug-in manifold connector mounting position and the serial unit mounting position on the reverse side (U side). Contact SMC for details regarding part numbers and wiring specifications, etc.

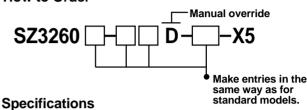




3 Single, Double Common Type -X5

Can be changed at the installation between single solenoid and double solenoid .

How to Order



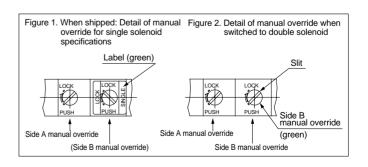
Valve type	Pilot type	Pilot type 2 position 5 port electrically activated valve					
Actuation type	Single so	lenoid, double so	lenoid common type				
Internal pilot operating	2 position	single	0.15 to 0.7				
pressure range MPa	2 position	double	0.15 to 0.7				
External pilot	Operating	pressure range	-100kPa to 0.7				
operating pressure range	Pilot	2 position single	0.25 to 0.7				
MPa	pressure range	2 position double	0.25 to 0.7				
Ambient and fluid temperature °C	Maximum	Maximum 50					
Power consumption W	0.6 (with light: 0.65)						
Weight (g)	C4: 81, C6: 77						

* Other specifications (effective area, response time, etc.) are the same as standard models.

⚠ Caution

Operating precautions

- 1. Specifications are for single solenoid at time of shipment. (Refer to Figure 1)
- When it will be used as a double solenoid type, set the manual override and connector assembly as follows.
 - ① Peel off the manual override label (green) from side B, and turn the side B manual override with a watchmakers screw driver so that the slit is in the position shown in Figure 2.
 - ② Install the socket of the accessory lead wire assembly (white), for energizing the side B solenoid, into the square hole marked "B" on the connector. Refer to the section "How to Use Plug Connectors" on catalog page 48 regarding installation.
- In case of the double solenoid set-up, do not energize the solenoids on both sides simultaneously.
- Refer to page 50 for further details regarding electrical connections and electrical circuits with light/surge voltage suppressor.
- 5. Dimensions are the same as standard models.







Series SZ3000

Safety Instructions

These safety instructions are intended to prevent a hazardous situation and/or equipment damage. These instructions indicate the level of potential hazard by a label of "Caution", "Warning" or "Danger". To ensure safety, be sure to observe ISO 4414 Note 1), JIS B 8370 Note 2) and other safety practices.

Caution: Operator error could result in injury or equipment damage.

Warning: Operator error could result in serious injury or loss of life.

↑ Danger : In extreme conditions, there is a possible result of serious injury or loss of life.

Note 1) ISO 4414: Pneumatic fluid power – Recommendations for the application of equipment to transmission and control systems

Note 2) JIS B 8370: General Rules for Pneumatic Equipment

1. The compatibility of pneumatic equipment is the responsibility of the person who designs the pneumatic system or decides its specifications.

Since the products specified here are used in various operating conditions, their compatibility for the specific pneumatic system must be based on specifications or after analysis and/or tests to meet your specific requirements.

2. Only trained personnel should operate pneumatically operated machinery and equipment.

Compressed air can be dangerous if an operator is unfamiliar with it. Assembly, handling or repair of pneumatic systems should be performed by trained and experienced operators.

- 3. Do not service machinery/equipment or attempt to remove components until safety is confirmed.
 - 1. Inspection and maintenance of machinery/equipment should only be performed after confirmation of safe locked-out control positions.
- 2. When equipment is to be removed, confirm the safety process as mentioned above. Cut the supply pressure for this equipment and exhaust all residual compressed air in the system.
- 3. Before machinery/equipment is restarted, take measures to prevent shooting-out of cylinder piston rod, etc. (Bleed air into the system gradually to create back pressure.)
- 4. Contact SMC if the product is to be used in any of the following conditions:
- 1. Conditions and environments beyond the given specifications, or if product is used outdoors.
- Installation on equipment in conjunction with atomic energy, railway, air navigation, vehicles, medical equipment, food and beverages, recreation equipment, emergency stop circuits, press applications, or safety equipment.
- 3. An application which has the possibility of having negative effects on people, property, or animals, requiring special safety analysis.



SZ30005 Port Solenoid Valve Precautions 1

Be sure to read before handling.

Precautions on Design

A Warning

1. Actuator drive

When an actuator, such as a cylinder, is to be driven using a valve, take appropriate measures to prevent potential danger caused by actuator operation.

2. Intermediate stopping

When a 3 position closed center valve is used to stop a cylinder at an intermediate position, accurate stopping of the piston in a predetermined position is difficult due to the compressibility of air. Furthermore, since valves and cylinders are not guaranteed for zero air leakage, it may not be possible to hold a stopped position for an extended length of time. Contact SMC if it is necessary to hold a stopped position for an extended time.

3. Effect of back pressure when using a manifold

Use caution when valves are used on a common exhaust manifold, as actuator malfunction due to back pressure may occur. Special caution is necessary when using a 3 position exhaust center valve, or when driving an air operated valve or single acting cylinder, etc., because malfunction may occur due to the exhaust from other actuators. When adverse effects from exhaust are possible, select a valve with back pressure check valve, or adopt measures such as the use of a supply/exhaust block assembly and exhaust blocking disk to separate the exhaust.

4. Holding of pressure (including vacuum)

Since valves are subject to air leakage, they cannot be used for applications such as holding pressure (including vacuum) in a pressure vessel.

5. Cannot be used as an emergency shutoff valve, etc.

The valves presented in this catalog are not designed for safety applications such as an emergency shutoff valve. If the valves are used in this type of system, other reliable safety assurance measures should also be adopted.

6. Maintenance space

The installation should allow sufficient space for maintenance activities.

7. Release of residual pressure

Provide a residual pressure release function for maintenance purposes. Special consideration should be given to the release of residual pressure between the valve and cylinder in the case of a 3 position closed center type valve.

8. Vacuum applications

When a valve is used for vacuum switching, etc., take measures against the suction of external dust or other contaminants from vacuum pads and exhaust ports, etc. Moreover, an external pilot type valve should be used in this case. Contact SMC in case of an internal pilot type.

9. Use of the double solenoid type

When using a double solenoid type for the first time, an actuator may operate in an unexpected direction due to the switching position of the valve. Implement measures to avoid danger from actuator operation.

10. Ventilation

When a valve is used inside a sealed unit such as a control panel, provide ventilation holes so that pressure inside the control panel does not increase from exhaust air, and so there is no

Selection

Marning

1. Confirm the specifications.

The products presented in this catalog are designed only for use in compressed air systems (including vacuum). Do not operate at pressures or temperatures, etc., beyond the range of specifications, as this can cause damage or malfunction. (Refer to specifications.) Contact SMC when using a fluid other than compressed air (including vacuum).

2. Extended periods of continuous energization

When a valve is energized continuously for an extended period of time or the energized time is longer than the deenergized time, use DC specifications or an energy saving type. Consult SMC regarding other products which are available for AC specifications.

⚠ Caution

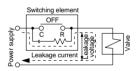
1. Momentary energization

If a double solenoid valve will be operated with momentary energization, it should be energized for at least 0.1 second.

However, since a cylinder may malfunction depending on the secondary load conditions, it should be energized until the cylinder reaches the stroke end position.

2. Leakage voltage

Particularly when using a C-R element (surge voltage suppressor) to protect a switching element, leakage voltage will increase due to the leakage current flowing through the C-R element.



Therefore, select a circuit or element so that the amount of previous residual leakage voltage conforms to the values shown below. Furthermore, when a reset fault occurs due to the leakage voltage, install a bleeder resistor. Consult SMC for details on the bleeder resistor.

With DC coil: 3% or less of rated voltage With AC coil: 8% or less of rated voltage

3. Low temperature operation

Unless otherwise indicated in the specifications for each valve, operation is possible to -10°C , but appropriate measures should be taken to avoid solidification or freezing of drainage and moisture, etc.

4. Operation for air blowing

When using solenoid valves for air blowing, use an external pilot type.

Note that the pressure drop caused by air blowing can have an effect on internal pilot type valves when internal pilots and external pilots are used on the same manifold. Furthermore, supply compressed air to the pilot port within the pressure range prescribed in the specifications, and when using a double solenoid type for air blowing, make sure that it is always energized when air is being blown.

5. Mounting position

The mounting position is unrestricted.





Series SZ3000 5 Port Solenoid Valve Precautions 2

Be sure to read before handling.

Mounting

A Warning

1. If air leakage increases or equipment does not operate properly, stop operation.

After mounting and maintenance, etc., connect the compressed air and power supplies, and perform appropriate function and leakage inspections to confirm that the unit is mounted properly.

2. Instruction manual

Mount and operate the product after reading the manual carefully and understanding its contents. Also keep the manual where it can be referred to as necessary.

3. Painting and coating

Warnings or specifications printed or pasted on the product should not be erased, removed or covered up.

Consult SMC if paint is to be applied to resin parts, as this may have an adverse effect due to the paint solvent.

Piping

⚠ Caution

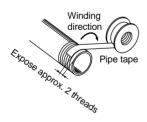
1. Preparation before piping

Before piping is connected, it should be thoroughly blown out with air (flushing) or washed to remove chips, cutting oil and other debris from inside the pipe.

2. Wrapping of pipe tape

When connecting pipes and fittings, etc., be sure that chips from the pipe threads and sealing material do not get inside the valve.

Further, when pipe tape is used, leave 1.5 to 2 thread ridges exposed at the end of the threads.



3. When using closed center valves

When using a closed center type valve, check carefully to be sure there are no air leaks from the piping between the valves and cylinders.

4. Connection of fittings

When connecting fittings to valves, tighten as indicated below. M5 type

1. When using SMC fittings, follow the guidelines below.

M5: After tightening by hand, tighten an additional 1/6 turn with a tightening tool. However, if miniature fittings are used, tighten an additional 1/4 turn with a tightening tool after tightening by hand. For fittings with gaskets in 2 locations, such as universal elbow or universal tee, tighten an additional 1/2 turn

Note) If fittings are over-tightened, air leakage may result due to breaking of fitting threads or deformation of the gaskets. However, if fittings are not tightened sufficiently, loosening of the threads and air leakage and may occur.

2. When fittings other than SMC fittings are used, follow the instructions of the respective fitting manufacturer.

Piping

⚠ Caution

5. Connection of piping to products

When connecting piping to a product, refer to its instruction manual to avoid mistakes regarding the supply port, etc.

Wiring

⚠ Caution

1. Polarity

When connecting power to a DC specification solenoid valve equipped with (light/) surge voltage suppressor, confirm whether or not there is polarity.

If there is polarity, take note of the following points.

• Without built-in diode to protect polarity:

If a mistake is made regarding polarity, the diode in the valve, the control device switching element or power supply equipment, etc., may burn out.

• With diode to protect polarity:

If a mistake is made regarding polarity, it will not be possible to switch the valve.

2. Applied voltage

When electric power is connected to the solenoid valve, be careful to apply the proper voltage. Improper voltage may cause malfunction or burn out the coil.

3. Confirmation of the connections

After completing the wiring, confirm that the connections are correct.

4. Handling of pilot valves

Do not allow a force greater than 20N to be applied to the pilot valve unit due to deflection of lead wires or external forces, etc., as this may cause damage.

Lubrication

⚠ Caution

1. Lubrication

- The valve has been lubricated for life at the factory, and does not require any further lubrication.
- 2) In the event that it is lubricated, use class 1 turbine oil (without additives), ISO VG32.

However, once lubrication is applied it must be continued, as the original lubricant may be eliminated leading to malfunction.

Contact SMC regarding class 2 turbine oil (with additives), ISO VG32.





Series SZ3000 5 Port Solenoid Valve Precautions 3

Be sure to read before handling.

Air Supply

Marning

1. Use clean air.

Do not use compressed air which contains chemicals, synthetic oils containing organic solvents, salts or corrosive gases, etc., as this can cause damage or malfunction.

⚠ Caution

1. Install air filters.

Install air filters close to valves at their upstream side. A filtration degree of $5\mu m$ or less should be selected.

2. Install an air dryer, after cooler or Drain Catch, etc.

Air that includes excessive drainage may cause malfunction of valves and other pneumatic equipment. To prevent this, install an air dryer, after cooler or Drain Catch, etc.

3. If excessive carbon powder is generated, eliminate it by installing mist separators at the upstream side of valves.

If excessive carbon powder is generated by the compressor, it may adhere to the inside of valves and cause malfunction.

Refer to SMC's "Compressed Air Cleaning Systems" catalog for further details on compressed air quality.

Operating Environment

⚠ Warning

- 1. Do not use valves in atmospheres of corrosive gases, chemicals, salt water, water or steam, or where there is direct contact with same.
- 2. Do not use in an explosive atmosphere.
- 3. Do not use in locations subject to vibration or impact. Confirm the specifications in the main section of this catalog.
- 4. Use a protective cover, etc., to shield valves from direct sunlight.
- 5. Shield valves from radiated heat generated by nearby heat sources.
- 6. Employ suitable protective measures in locations where there is contact with water droplets, oil or welding spatter, etc.
- 7. When solenoid valves are mounted in a control panel or are energized for extended periods of time, employ measures to radiate excess heat, so that temperatures remain within the valve specification range.

Maintenance

A Warning

1. Perform maintenance procedures as shown in the instruction manual.

If handled improperly, malfunction or damage of machinery or equipment may occur.

2. Equipment removal and supply/exhaust of compressed air

When equipment is removed, first confirm that measures are in place to prevent dropping of work pieces and run-away of equipment, etc. Then cut the supply pressure and power, and exhaust all compressed air from the system using its residual pressure release function.

Furthermore, in the case of 3 position closed center type valves, compressed air will remain between valves and cylinders, and must be exhausted similarly.

When the equipment is to be started again after remounting or replacement, first confirm that measures are in place to prevent lurching of actuators, etc., and then confirm that the equipment is operating normally.

3. Low frequency operation

Switch valves at least once every 30 days to prevent malfunction. (Use caution regarding the air supply.)

4. Manual override operation

When the manual override is operated, connected equipment will be actuated. Confirm safety before operating.

⚠ Caution

1. Drainage removal

Remove drainage from air filters regularly. (Refer to specifications.)

How to Find the Flow Rate (at air temperature of 20°C)

Subsonic flow when P1 + 0.1013 < 1.89 (P2 + 0.1013)

 $Q = 226S \sqrt{\triangle P(P_2 + 0.1013)}$

Sonic flow when P1 + 0.1013 ≥ 1.89 (P2 + 0.1013)

Q = 113S (P1 + 0.1013)

Q: Air flow rate [/min (ANR)]

S: Effective area (mm²)

△P: Differential pressure (P1-P2) [MPa]

P1: Upstream pressure [MPa]

P2: Downstream pressure [MPa]

* Correction for different air temperatures

Multiply the flow rate calculated with the above formula by a
coefficient from the table below.

Air temperature (°C)	-20	-10	0	10	30	40	50	60
Correction coefficient	1.08	1.06	1.04	1.02	0.98	0.97	0.95	0.94



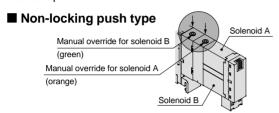


Be sure to read before handling. Refer to pages 44 through 47 for safety instructions and common precautions.

⚠ Warning

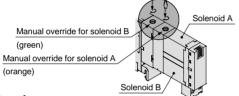
Manual operation

Handle carefully, as connected equipment will be actuated through manual operation.



■ Slotted locking type (screw driver operated)

After pushing down, turn in the direction of the arrow. If it is not turned, it can be operated the same way as the non-locking type.



⚠ Caution

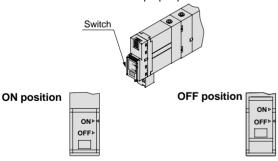
When locking the manual override on the screw driver operated slotted locking type, be sure to push it down before turning.

Turning without first pushing it down can cause damage to the manual override and air leakage, etc.

Marning

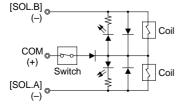
Valves with switches

When turning OFF with the switch, be sure to move the switch to the locked position. Connected equipment may be actuated if current flow occurs with the switch at an improper position.



Normal operating condition. Switching of valve is based on an electric signal from the connector. The valve coil is kept in a deenergized state even when there is an electric signal from the connector.

Electric circuit diagram (with positive common and light/surge voltage suppressor)



⚠ Caution

How to use plug connectors

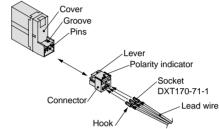
When attaching and detaching a connector, first shut off the electric power and the air supply.

Also, crimp the lead wires and sockets securely.

1. Attaching and detaching connectors

- To attach a connector, hold the lever and connector unit between your fingers and insert straight onto the pins of the solenoid valve so that the lever's pawl is pushed into the groove and locks.
- To detach a connector, remove the pawl from the groove by pushing the lever downward with your thumb, and pull the connector straight out.

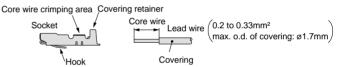
 Court



2. Crimping of lead wires and sockets

Strip 3.2 to 3.7mm at the end of the lead wires, insert the ends of the core wires evenly into the sockets, and then crimp with a crimping tool. When this is done, take care that the coverings of the lead wires do not enter the core wire crimping area.

(crimping tool: model no. DXT170-75-1)



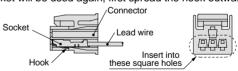
3. Attaching and detaching lead wires with sockets

Attaching

Insert the sockets into the square holes of the connector (with +), \bigcirc indication), and continue to push the sockets all the way in until they lock by hooking into the seats in the connector. (When they are pushed in, their hooks open and they are locked automatically.) Then confirm that they are locked by pulling lightly on the lead wires.

Detaching

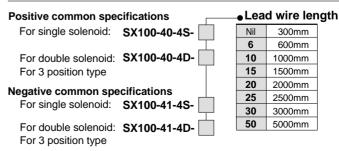
To detach a socket from a connector, pull out the lead wire while pressing the socket's hook with a stick having a thin tip (about 1mm). If the socket will be used again, first spread the hook outward.



■ Plug connector lead wire lengths

Plug connector lead wires have a standard length of 300mm, however, the following lengths are also available.

M type connector assembly part numbers



Ordering

Include the connector assembly part number together with the part number for the plug connector's solenoid valve without connector.

<Example>
Lead wire length 2000mm
SZ3160-5MO-M5
SX100-40-4S-20





Be sure to read before handling. Refer to pages 44 through 47 for safety instructions and common precautions.

⚠Caution

Common connector assembly for manifold

By using a common connector assembly for the solenoid valves on a manifold, the common wiring for each solenoid valve is reduced to one line, making it possible to achieve labor savings on wiring work.

Common connector assembly part numbers

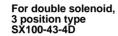
Pos. common specifications For single solenoid SX100-42-4S

ns Neg. common specifications For single solenoid SX100-43-4S





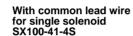
For double solenoid, 3 position type SX100-42-4D







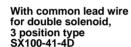
With common lead wire for single solenoid SX100-40-4S







With common lead wire for double solenoid, 3 position type SX100-40-4D







(lead wire length 300mm)

(lead wire length 300mm)

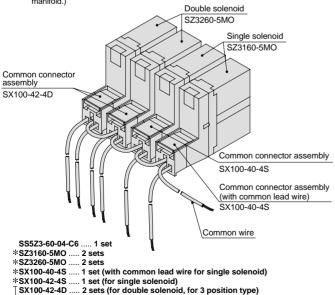
How to order

Include the common connector assembly part number together with the manifold and solenoid valve part numbers. If the arrangement becomes complicated, then indicate on the manifold specification sheets (pages 37 to 41).

Note 1) Take note that applications with unused connectors or with blanking plates between stations are not possible.

Note 2) For the solenoid valve, specify "without connector" for the plug connector type. The grommet type cannot be used.

Note 3) In places where signals will be sent to the common wiring, use a connector assembly with a common lead wire. (This is limited to the first station or the last station of a

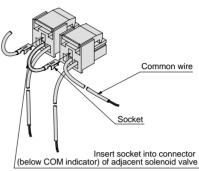


-The st symbol indicates built-in. Put the st symbol at the beginning of part numbers

for solenoid valves, etc., which are to be attached.

Common connector assembly wiring

When ordering common connector assemblies alone, wiring should be performed as outlined in the drawing below. For details on attachment of sockets, refer to the section "How to use plug connectors" on page 48.



↑ Caution

Precautions for One-touch fittings

The pitch of each piping port (P, A, B, etc.) for Series SZ is based on the assumption that Series KJ One-touch fittings will be used. For this reason, when other fittings are used, they may interfere with one another depending on their types and sizes. Therefore, the dimensions of the fittings to be used should first be confirmed in their respective catalogs.

△ Caution

Exhaust restriction

Since the Series SZ is a type in which the pilot valve exhaust joins the main valve exhaust inside the valve, care must be taken that the piping from the exhaust port is not restricted.

ACaution

Series SZ3000 used as a 3 port valve

Using a 5 port valve as a 3 port valve

Series SZ3000 valves can be used as normally closed (N.C.) or normally open (N.O.) 3 port valves by closing one of the cylinder ports (A or B) with a plug. However, they should be used with the exhaust ports kept open. They are convenient at times when a double solenoid type 3 port valve is required.

Plug	position	Port B	Port A			
Swi	tching	N.C.	N.O.			
solenoids	Single	Plug (A) (B) (A) (B) (EA) (P) (EB)	(A) (B) (A) (B) (B) (EA) (F) (EB)			
Number of solenoids	Double	Plug (A) (B) (A) (B) (EA) (P) (EB)	Plug (A) (B) (EA) (P) (EB)			





Be sure to read before handling. Refer to pages 44 through 47 for safety instructions and common precautions.

⚠ Caution

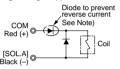
Light/Surge voltage suppressor

Pos. common specifications

Single solenoid type

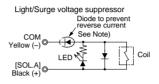
Light/Surge voltage suppressor Diode to prevent reverse current See Note) LED

Surge voltage suppressor

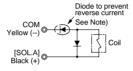


Neg. common specifications

Single solenoid type

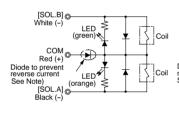


Surge voltage suppressor

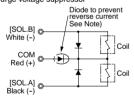


Pos. common specifications

Double solenoid, 3 position type Light/Surge voltage suppressor

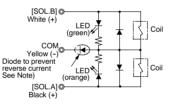


Surge voltage suppressor

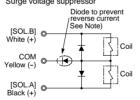


Neg. common specifications

Double solenoid, 3 position type Light/Surge voltage suppressor



Surge voltage suppressor



Note) Connect so that polarity is matched to the connector's (+), (-) and A, B, COM indicators. In case of voltage specifications other than 12 or 24VDC, take care to avoid mistaking polarity, as there is no diode to prevent reverse current. In the event that lead wires are connected in advance, they will be as shown below.

Pos. common specifications A (-): Black

COM (+): Red

B (-): White (no lead wire in case of single solenoid)

Neg. common specifications A (+): Black

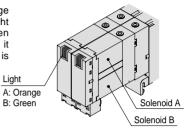
COM (-): Yellow

B (+): White (no lead wire in case of single solenoid)

⚠ Caution

Light indication

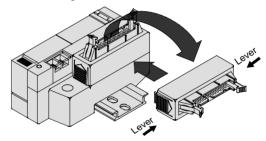
case of light/surge the voltage suppressor, the light window turns orange when solenoid A is energized, and it turns green when solenoid B is energized.



⚠ Caution

Changing the connector entry direction

To change the connector's entry direction, press the levers on both sides of the connector, take it off, and change the direction as shown in the drawing. Since lead wires are attached to the connector, excessive pulling or twisting can cause broken wires or other trouble. Also, take care that lead wires are not pinched when installing the connector.







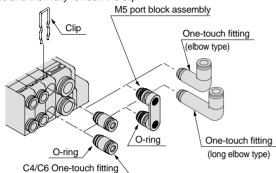
Be sure to read before handling. Refer to pages 44 through 47 for safety instructions and common precautions.

⚠ Caution

Replacement of fitting assemblies

By replacing a valve's fitting assembly, it is possible to change the connection diameter of the A, B, P and R ports.

When replacing it, pull out the fitting assembly after removing the clip with a flat head screw driver, etc. To mount a new fitting assembly, insert it into place and then fully reinsert the clip.



Part numbers

	Port size	Part no.
	ø4 One-touch fitting assembly	VVQ1000-50A-C4
	ø6 One-touch fitting assembly	VVQ1000-50A-C6
Θ,	ø4 One-touch fitting assembly (elbow type)	SZ3000-73-1A-L4
, A	ø6 One-touch fitting assembly (elbow type)	SZ3000-73-1A-L6
Ports	ø4 One-touch fitting assembly (long elbow type)	SZ3000-73-2A-L4
Ф	ø6 One-touch fitting assembly (long elbow type)	SZ3000-73-2A-L6
	M5 port block assembly	SZ3000-56-1A
	ø6 One-touch fitting assembly	VVQ1000-51A-C6
~	ø8 One-touch fitting assembly	VVQ1000-51A-C8
₾,	ø6 One-touch fitting assembly (elbow type)	SZ3000-74-1A-L6
Ports	ø8 One-touch fitting assembly (elbow type)	SZ3000-74-1A-L8
P	ø6 One-touch fitting assembly (long elbow type)	SZ3000-74-2A-L6
	ø8 One-touch fitting assembly (long elbow type)	SZ3000-74-2A-L8

- Note 1) When changing the connection diameters for ports P and R, indicate this on the manifold specification sheets (pages 37 through 41).
- Note 2) Take care not to get scratches or dirt, etc., on O-rings, as this can cause air leakage.
- Note 3) When removing a straight type fitting assembly from a valve, after removing the clip, connect a tube or plug (KQP-III) to the One-touch fitting and pull it out by holding the tube (or plug). If the fitting assembly is pulled out by holding its release button (resin part), the release bushing may be damaged.
- Note 4) Before disassembly, be sure to turn off the electric power and air supplies. Also, since air may still remain inside actuators, piping and manifolds, confirm that this air has been completely exhausted before performing any work.
- Note 5) When inserting tubing into an elbow type fitting assembly, insert the tubing while holding the elbow fitting assembly body with your hand. If the tubing is inserted without holding the elbow, excessive force can be applied to the valve and fitting assembly, causing air leakage or damage, etc.

△ Caution

Precautions for One-touch fittings

- 1. Tube attachment/detachment for One-touch fittings
 - 1) Attaching of tube
 - ① Take a tube having no flaws on its periphery and cut it off at a right angle. When cutting the tube, use tube cutters TK-1, 2 or 3. Do not use pinchers, nippers or scissors, etc. If cutting is done with tools other than tube cutters, the tube may be cut diagonally or become flattened, etc. This can make a secure installation impossible, and cause problems such as the tube pulling out after installation or air leakage. Allow some extra length in the tube.
 - ② Grasp the tube and push it in slowly, inserting it securely all the way into the fitting.
 - ③ After inserting the tube, pull on it lightly to confirm that it will not come out. If it is not installed securely all the way into the fitting, this can cause problems such as air leakage or the tube pulling out.

2) Detaching of tube

- ① Push in the release button sufficiently, pushing the collar evenly.
- ② Pull out the tube while holding down the release button so that it does not come out. If the release button is not pressed down sufficiently, there will be increased bite on the tube and it will become more difficult to pull it out.
- ③ When the removed tube is to be used again, cut off the portion which has been chewed before reusing it. If the chewed portion of the tube is used as is, this can cause trouble such as air leakage or difficulty in removing the tube.

⚠ Caution

Precautions on other tube brands

- 1. When using other than SMC brand tubes, confirm that the following specifications are satisfied with respect to the outside diameter tolerance of the tube.
 - 1) Nylon tube within \pm 0.1mm
 - 2) Soft nylon tube within ± 0.1mm
 - 3) Polyurethane tube within + 0.15mm

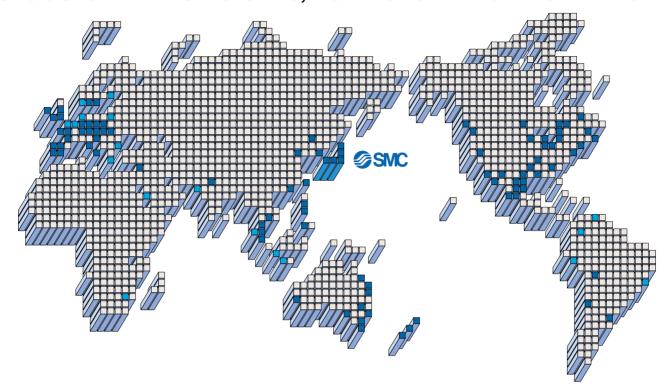
within - 0.2mm

Do not use tubes which do not meet these outside diameter tolerances. It may not be possible to connect them, or they may cause other trouble, such as air leakage or the tube pulling out after connection.





SMC'S GLOBAL MANUFACTURING, DISTRIBUTION AND SERVICE NETWORK



EUROPE

AUSTRIA

SMC Pneumatik GmbH

CZECH

SMC Czech s.r.o.

DENMARK

SMC Pneumatik A/S

FINLAND

SMC Pneumatiikka OY

FRANCE

SMC Pneumatique SA

GERMANY

SMC Pneumatik GmbH

HUNGARY

SMC Hungary Kft.

IRELAND

SMC Pneumatics (Ireland) Ltd.

ITALY/ROMANIA

SMC Italia S.p.A.

NETHERLANDS

SMC Pnuematics BV.

NORWAY

SMC Pneumatics Norway A/S

RUSSIA

SMC Pneumatik LLC.

SLOVAKIA

SMC Slovakia s.r.o.

SLOVENIA

SMC Slovenia d.o.c.

SPAIN/PORTUGAL

SMC España, S.A.

EUROPE

SWEDEN

SMC Pneumatics Sweden AB

SWITZERLAND

SMC Pneumatik AG.

SMC Pneumatics (U.K.) Ltd.

ASIA

CHINA

SMC (China) Co., Ltd.

HONG KONG

SMC Pneumatics (Hong Kong) Ltd.

INDIA

SMC Pneumatics (India) Pvt. Ltd.

MALAYSIA

SMC Pneumatics (S.E.A.) Sdn. Bhd.

PHILIPPINES

SMC Pneumatics (Philippines), Inc.

SINGAPORE

SMC Pneumatics (S.E.A.) Pte. Ltd.

SOUTH KOREA

SMC Pneumatics Korea Co., Ltd.

SMC Pneumatics (Taiwan) Co., Ltd.

THAILAND

SMC Thailand Ltd.

NORTH AMERICA

CANADA

SMC Pneumatics (Canada) Ltd.

MEXICO

SMC Corporation (Mexico) S.A. de C.V.

SMC Pneumatics, Inc.

SOUTH AMERICA

ARGENTINA

SMC Argentina S.A.

BOLIVIA

SMC Pneumatics Bolivia S.R.L.

BR A 7 II

SMC Pneumaticos Do Brazil Ltda.

CHILE

SMC Pneumatics (Chile) S.A.

VENEZUELA

SMC Neumatica Venezuela S.A.

OCEANIA

AUSTRALIA

SMC Pneumatics (Australia) Pty. Ltd.

NEW ZEALAND

SMC Pneumatics (N.Z.) Ltd.

SMC CORPORATION

1-16-4 Shimbashi, Minato-ku, Tokyo 105-0004, JAPAN Tel: 03-3502-2740 Fax: 03-3508-2480 URL http://www.smcworld.com

5/2, 5/3 пневмораспределитель с электропневматическим управлением

EVF3000/5000

G1/8-G3/8

- Пропускная способность до 2450 норм. л/мин при компактных размерах
- Индивидуальный монтаж и монтаж на общей плите

Технические характеристики

Среда		Очищенный сжатый воздух,				
		с содержанием масла* или без него				
Рабочее давление (МПа)	5/2 с пружинным возвратом	0.15-0.9				
500 m (a)	5/2 с двусторонним импульсным управлением	0.1-0.9				
	5/3 со средним положением	0.1-0.9				
Рабочая температура, ма	кс. (°C)	50				
Время	5/2	<30				
срабатывания (мс)	5/3	<50				
Макс. частота	5/2	5				
срабатывания (Гц)	5/3	3				
Вспомогательное ручное	управление	фиксируется				
Монтажное положение		произвольное				
Электрический подвод		3-х клеммный разъем по стандарту DIN 43650, конструктивное исполнение В				
Напряжение (В)**	DC	24				
The state of the s	AC	220				
Допуск по напряжению		от -15% до+10%				
Степень защиты		IP65				
Класс изоляции		В				
Потребляемая мощность	(Bt, DC)	1.8				
Искрогашение		по запросу				
Индикатор рабочего состо	пиня	по запросу				



Конструк- тивное ис- полнение	Тип	Принцип действия	Условное обозначение	Присоедини- тельная резьба	Расход (л/мин)	Bec (r)
Индивиду-	EVF3133	5/2 с пружинным	А В	G1/8	780	210
альный		возвратом		G1/4	980	
монтаж,	EVF5120	D	R1 P R2	G3/8	2450	380
монтаж на плите	EVF3233 5/2 с двусторонним импульсным	A B	G1/8	780	290	
		импульсным	ZZ \ \ \ \ ZZ	G1/4	980	
	EVF5220	7,7	R1 P R2	G3/8	2450	450
	EVF3333			G1/8	638	420
		положении	W 1 1 1 1 1 W	G1/4	780	
	EVF5320	закрыт	R1 P R2	G3/8	1960	560
	EVF3433	5/3, в среднем	A B	G1/8	780	420
		положении	W.111111	G1/4	980	
	EVF5420	открыт	R1 P R2	G3/8	2250	560

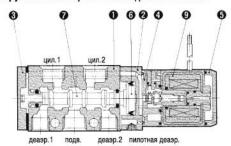
^{*} Рекомендуемое качество масла: ISO VG 32 класс ** Другие напряжения по запросу



5/2, 5/3 пневмораспределитель с электропневматическим управлением EVF3000/5000

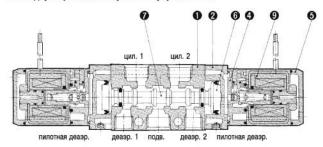
Спецификация

5/2 с пружинным возвратом в исходное положение

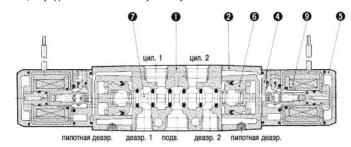


Поз.	Обозначение	Материал		
1	Корпус пневмораспределителя	Алюминий		
2 Промежуточная деталь		Алюминий		
3	Концевая пластина	Алюминий		
4	Пилотный элемент	Полиацеталь		
5	Крышка	Полиацеталь		
6	Поршень управления	Полиацеталь (для 5/3 - алюминий)		
7 Золотник		Алюминий, NBR		
9	Вспомогательный элемент упр.	_		

5/2 с двусторонним импульсным управлением



5/3, в среднем положении открыт/закрыт



Запасные части

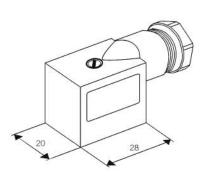
Обозначение	Напряжение	Номер для заказа
Элемент включения	24 V DC	SF4-5YOB-50
с катушкой электромагнита	220 V AC	SF4-4YOB-50

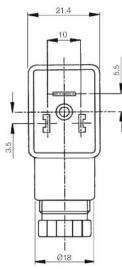
Принадлежности

Обозначение	Тип	Номер для заказа
Крышка с уплотнением и винтами	EVF3000	DXT031-38-1A
(заглушка на 1 позицию плиты)	EVF5000	DXT156-19-1A

Номер для заказа ответных частей разъема (заказываются отдельно)

Номер для заказа		Описание		
24 VDC	220 VAC			
X31		Без индикатора рабочего состояния и искрогашения		
X32	X30	С индикатором рабочего состояния и искрогашением		





Данные по заказу

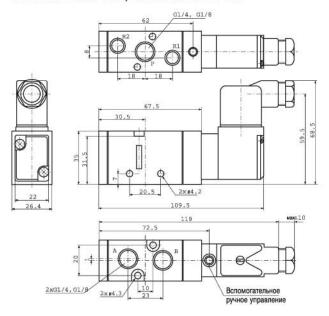
Принцип действия	Напряжение	Номер для заказа				
	7.0	EVF3000		EVF5000		
		Присоед, резьба G1/8	Присоед. резьба G1/4	Присоед. резьба G3/8		
5/2 с пружинным	24 V DC	EVF3133-5YOB-01F	EVF3133-5YOB-02F	EVF5120-5YOB-03F		
возвратом	220 V AC	EVF3133-4YOB-01F	EVF3133-4YOB-02F	EVF5120-4YOB-03F		
5/2 с двусторонним	24 V DC	EVF3233-5YOB-01F	EVF3233-5YOB-02F	EVF5220-5YOB-03F		
импульсным управлением	220 V AC	EVF3233-4YOB-01F	EVF3233-4YOB-02F	EVF5220-4YOB-03F		
5/3 в среднем положении	24 V DC	EVF3333-5YOB-01F	EVF3333-5YOB-02F	EVF5320-5YOB-03F		
закрыт	220 V AC	EVF3333-4YOB-01F	EVF3333-4YOB-02F	EVF5320-4YOB-03F		
5/3 в среднем положении	24 V DC	EVF3433-5YOB-01F	EVF3433-5YOB-02F	EVF5420-5YOB-03F		
открыт	220 V AC	EVF3433-4YOB-01F	EVF3433-4YOB-02F	EVF5420-4YOB-03F		

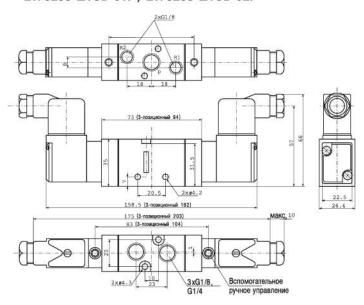
Винты и уплотнительные элементы для монтажа на плитах пневмораспределителей поставляются вместе с плитами.

5/2, 5/3 пневмораспределитель с электропневматическим управлением **EVF3000/5000**

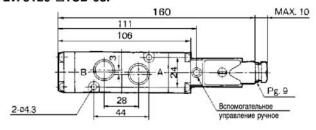
Размеры

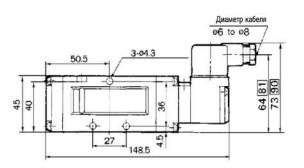
EVF3133- QYOB-01F / EVF3133- QYOB-02F



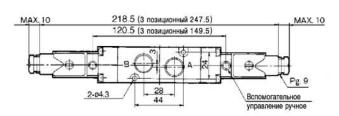


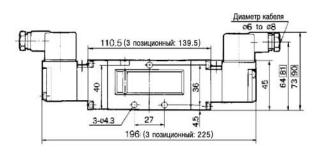
EVF5120-□YOB-03F





EVF5 20- YOB-03F





Данные по заказу многосекционной присоединительной плиты

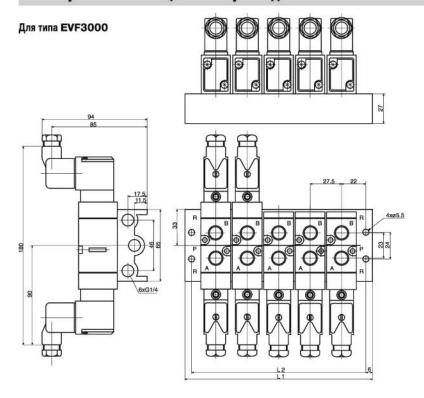
Количество	Номер для заказа				
секций	EVF3000 (G1/4)*	EVF5000 (G3/8)			
2	EVV5F3-30-021-00F	EVV5F5-20-021-00F			
3	EVV5F3-30-031-00F	EVV5F5-20-031-00F			
4	EVV5F3-30-041-00F	EVV5F5-20-041-00F			
5	EVV5F3-30-051-00F	EVV5F5-20-051-00F			
6	EVV5F3-30-061-00F	EVV5F5-20-061-00F			
7	EVV5F3-30-071-00F	EVV5F5-20-071-00F			
8	EVV5F3-30-081-00F	EVV5F5-20-081-00F			
9	EVV5F3-30-091-00F	EVV5F5-20-091-00F			
10	EVV5F3-30-101-00F	EVV5F5-20-101-00F			

^{*} Максимальное количество секций — 20



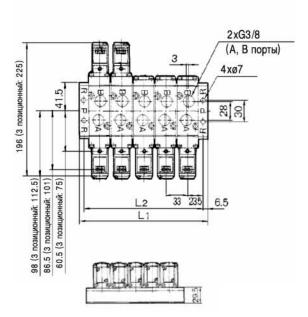
5/2, 5/3 пневмораспределитель с электропневматическим управлением EVF3000/5000

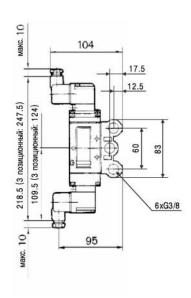
Размеры / многосекционная присоединительная плита



Кол. секций	2	3	4	5	6	7	8	9	10
L1	83.5	111	138.5	166	193.5	221	248.5	276	303.5
L2	71.5	99	126.5	154	181.5	209	236.5	264	291.5

Для типа EVF5000





Кол. секций	2	3	4	5	6	7	8	9	10
L1	93	126	159	192	225	258	291	324	357
L2	80	113	146	179	212	245	278	311	344

Пневмораспределители серии EVS7 по стандарту ISO/CNOMO

5/2, 5/3 пневмораспределители с электропневматическим управлением

- Золотник из нержавеющей стали
- Ресурс более 100 миллионов рабочих циклов
- Высокая пропускная способность
- Монтаж на плитах по ISO стандарту

Технические характеристики

эхнические характеристики					
Типоразмер		ISO 1	ISO 2	ISO 3	
		EVS7-6	EVS7-8	EVS7-10	
Среда		Очищенный сжатый воздух с содержанием масла*			
	или без него				
Рабочее давление (МПа)		0.1~0.99**			
Рабочая температура (С)		макс. 60			
Время срабатывания (мс), не более	5/2 с односторонним управлением	25	45	50	
	5/2 с двусторонним управлением	15	20	25	
	5/3	45	60	60	
Максимальная частота	5/2	20	15	10	
срабатывания (Гц)	5/3	30	8	5	
Вспомогательное ручное	управление	не блокируется			
Монтажное положение		произвольное			
Электрический подвод		3-х клеммный разъем по DIN 43650,			
		конструктивное исполнение А			
Напряжение		24 VDC, 220 VAC ***			
Допуск по напряжению		от -15% до +10%			
Степень защиты		IP65			
Класс изоляции	В				
Потребляемая мощность	(Bt, DC)	2			
Искрогашение		по запросу			
Индикатор рабочего сост	RNHRC	по запросу			



Исполнение

Конструк-	Тип	Принцип	Условное	Присоед.	Расход	Bec
тивное		действия	обозначение	резьба	(л/мин)	(r)
исполнение				плиты *		
Монтаж	EVS7-6-FG-S	5/2 c	A B	G1/4; G3/8	1470	460
на плите	EVS7-8-FG-S	пружинным		G3/8, G1/2	3160	698
	EVS7-10-FG-S	возвратом	R1 P R2	G3/4; G1	4905	1050
	EVS7-6-FG-D	5/2 c	A B	G1/4; G3/8	1470	560
	EVS7-8-FG-D	двусторонним		G3/8, G1/2	3160	806
	EVS7-10-FG-D	импульсным	R1 P R2	G3/4; G1	4905	1160
		управлением				
	EVS7-6-FHG-D	5/3 в среднем	A B	G1/4; G3/8	1390	635
	EVS7-8-FHG-D	положении		G3/8, G1/2	3160	867
	EVS7-10-FHG-D	закрыт	R1 P R2	G3/4; G1	4905	1230
	EVS7-6-FJG-D	5/3 в среднем	A B	G1/4; G3/8	1470	635
	EVS7-8-FJG-D	положении		G3/8, G1/2	3160	867
	EVS7-10-FJG-D	открыт	R1 P R2	G3/4; G1	4905	1230

^{*} Плиты пневмораспределителей заказываются отдельно

^{*} Рекомендуемое качество масла: ISO VG 32 класс 1

^{**} Работа на вакууме возможна при подводе внешнего пилотного воздуха

^{***} Другие напряжения по запросу

Пневмораспределители серии EVS7 по стандарту ISO/CNOMO 5/2, 5/3 пневмораспределители с электропневматическим управлением

Данные по заказу

Данные по заказу

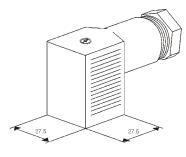
Принцип действия	Напряжение*	Номер для заказа		
		EVS7-6 (ISO 1)	EVS7-8 (ISO 2)	EVS7-10 (ISO 3)
5/2 с пружинным возвратом	24 V DC	EVS7-6-FG-S-3CVO	EVS7-8-FG-S-3CVO	EVS7-10-FG-S-3CVO
	220 V AC	EVS7-6-FG-S-9CVO(AC220V)	EVS7-8-FG-S-9CVO(AC220V)	EVS7-10-FG-S-9CVO(AC220V)
5/2 с двусторонним импульсным	24 V DC	EVS7-6-FG-D-3CVO	EVS7-8-FG-D-3CVO	EVS7-10-FG-D-3CVO
управлением	220 V AC	EVS7-6-FG-D-9CVO(AC220V)	EVS7-8-FG-D-9CVO(AC220V)	EVS7-10-FG-D-9CVO(AC220V)
5/3 в среднем положении	24 V DC	EVS7-6-FHG-D-3CVO	EVS7-8-FHG-D-3CVO	EVS7-10-FHG-D-3CVO
закрыт	220 V AC	EVS7-6-FHG-D-9CVO(AC220V)	EVS7-8-FHG-D-9CVO(AC220V)	EVS7-10-FHG-D-9CVO(AC220V)
5/3 в среднем положении	24 V DC	EVS7-6-FJG-D-3CVO	EVS7-8-FJG-D-3CVO	EVS7-10-FJG-D-3CVO
открыт	220 V AC	EVS7-6-FJG-D-9CVO(AC220V)	EVS7-8-FJG-D-9CVO(AC220V)	EVS7-10-FJG-D-9CVO(AC220V)

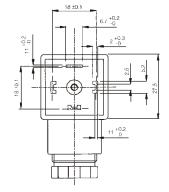
^{*} Другие напряжения по запросу

Винты и уплотнительные элементы для монтажа на плитах пневмораспределителей поставляются вместе с пневмораспределителями.

Номер для заказа ответной части разъема (заказываются отдельно)

Описание	Номер для заказа	
	24 V DC	220 V AC
Без индикатора рабочего состояния	A0	
и искрогашения		
С индикатором рабочего состояния	A6	A7
и искрогашением		





Запасные части

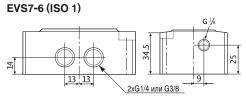
Описание		Номер для заказа		
		EVS7-6	EVS7-8	EVS7-10
Уплотнение между распредел	Уплотнение между распределителем и плитой,			BG-EVS7-10
крепежные винты				
Пилотный клапан CNOMO	ah CNOMO 24 V DC		EAXT518A-3	
	220 V AC			

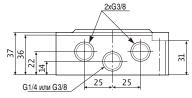
Номер для заказа индивидуальной присоединительной плиты

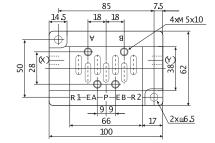
(без уплотнения и винтов)

Присоединительная резьба	Типоразмер	Номер для заказа
G1/4	EVS7-6	EVS7-1-A02F
G3/8		EVS7-1-A03F
G3/8	EVS7-8	EVS7-2-A03F
G1/2		EVS7-2-A04F
G3/4	EVS7-10	EVS7-3-A06F
G1		EVS7-3-A10F

Размеры / присоединительная плита для индивидуального монтажа пневмораспределителя



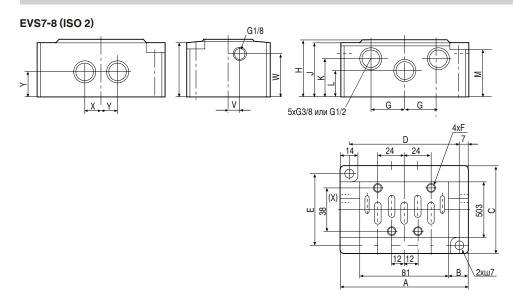




Присоединительная резьба отверстия выпуска воздуха G3/8

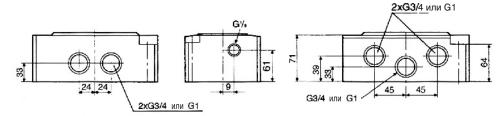
Пневмораспределители серии EVS7 по стандарту ISO/CNOMO 5/2, 5/3 пневмораспределители с электропневматическим управлением

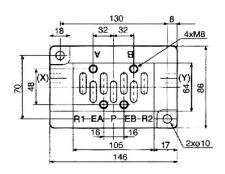
Размеры / присоединительная плита для индивидуального монтажа пневмораспределителя



Присоединение	Α	В	С	D	Е	F	G	Н	J	K	L	М	U	٧	W	Х	Υ
G3/8, G1/2	112	15.5	75	98	62	4-M6x10	30	50	49	32	23	42	47.5	10	38	16	23

EVS7-10 (ISO 3)



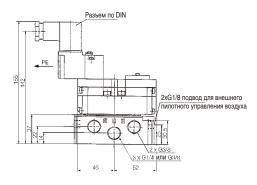


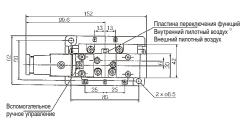
SMC.

Пневмораспределители серии EVS7 по стандарту ISO/CNOMO 5/2. 5/3 пневмораспределители с электропневматическим управлением

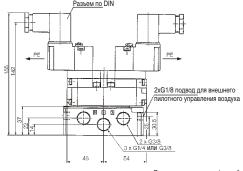
Размеры

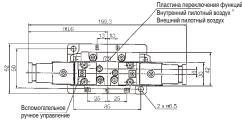
EVS7-6-FG-S-□CVO



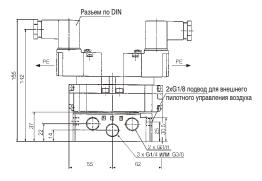


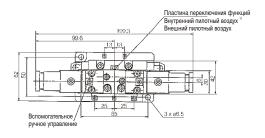
EVS7-6-FG-D-□CVO





EVS7-6-FHG-D-□CVO / EVS7-6-FJG-D-□CVO / EVS7-6-FIG-D-□CVO





1) Пилотное управление

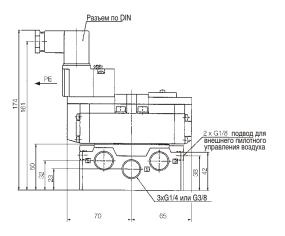
Пневмораспределители серии ISO/CNOMO в соответствии со стандартом оснащены функциональной пластиной, поворачивая которую можно установить как режим внутреннего снабжения пилотным воздухом, так и режим снабжения пилотным воздухом снаружи. Режимные установки наглядно отмаркированы на функциональной пластине буквами "І" (внутренний пилотный воздух) и, соответственно, "R" (внешний пилотный воздух).

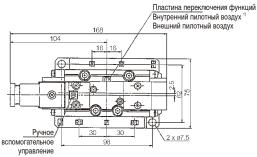
При использовании внешнего пилотного воздуха давление должно подаваться в оба пилотных порта.

Пневмораспределители серии EVS7 по стандарту ISO/CNOMO 5/2, 5/3 пневмораспределители с электропневматическим управлением

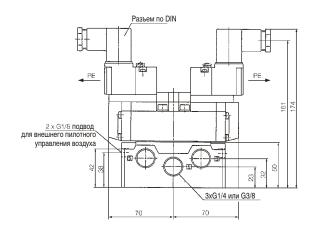
Размеры

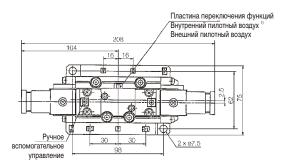
EVS7-8-FG-S-□CVO



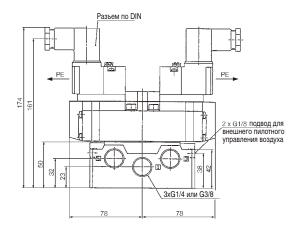


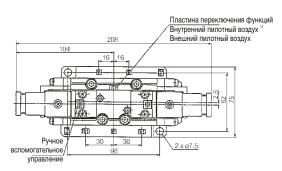
EVS7-8-FG-D-□CVO





EVS7-8-FHG-D-CVO / EVS7-8-FJG-D-CVO / EVS7-8-FIG-D-CVO





1) Пилотное управление

Пневмораспределители серии ISO/CNOMO в соответствии со стандартом оснащены функциональной пластиной, поворачивая которую можно установить как режим внутреннего снабжения пилотным воздухом, так и режим снабжения пилотным воздухом снаружи. Режимные установки наглядно отмаркированы на функциональной пластине буквами "I" (внутренний пилотный воздух) и, соответственно, "R" (внешний пилотный воздух).

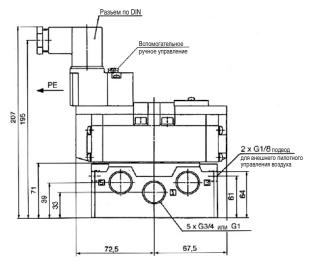
При использовании внешнего пилотного воздуха давление должно подаваться в оба пилотных порта.

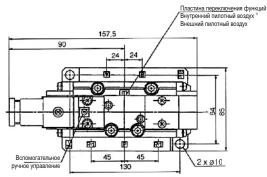
SMC.

Пневмораспределители серии EVS7 по стандарту ISO/CNOMO 5/2. 5/3 пневмораспределители с электропневматическим управлением

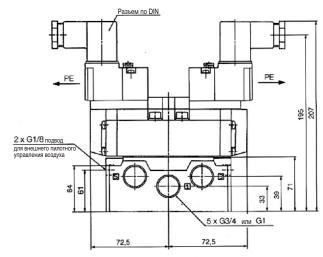
Размеры

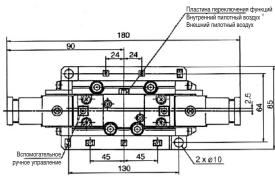
EVS7-10-FG-S-□CVO



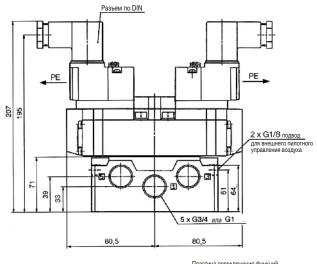


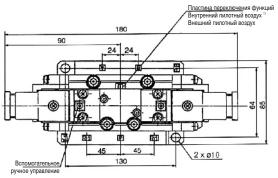
EVS7-10-FG-D-□CVO





EVS7-10-FHG-D-CVO / EVS7-10-FJG-D-CVO





1) Пилотное управление

Пневмораспределители серии ISO/CNOMO в соответствии со стандартом оснащены функциональной пластиной, поворачивая которую можно установить как режим внутреннего снабжения пилотным воздухом, так и режим снабжения пилотным воздухом снаружи. Режимные установки наглядно отмаркированы на функциональной пластине буквами "I" (внутренний пилотный воздух) и, соответственно, "R" (внешний пилотный воздух).

При использовании внешнего пилотного воздуха давление должно подаваться в оба пилотных порта.

Пневмораспределители серии EVS7 по стандарту ISO/CNOMO

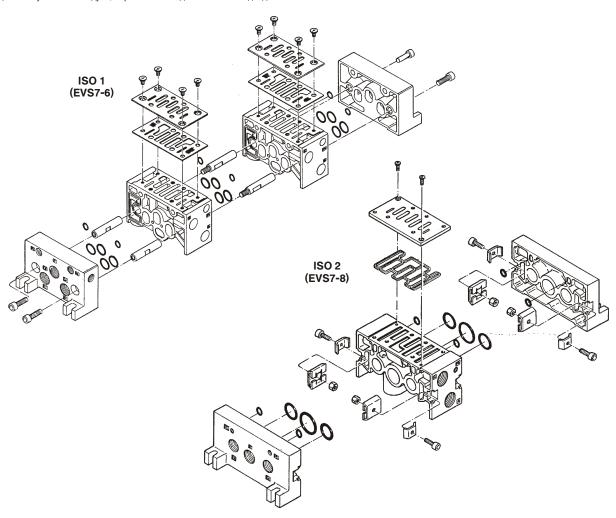
Модульная система плит пневмораспределителей

Плиты пневмораспределителей для блочного монтажа

В модульной системе плит пневмораспределителей отдельные плиты соединяются в блоки с помощью стяжек (EVS7-6) или скоб (EVS7-8). Блок пневмораспределителей в любое время может быть расширен за счет присоединения дополнительных промежуточных плит.

Блок пневмораспределителей имеет пять сквозных каналов (P, PA, PB, R1, R2), выходы которых располагаются со стороны концевых плит. Порт P предназначен для подвода к блоку сжатого воздуха, порты PA и PB - для внешнего подвода

пилотного воздуха (в штатном режиме работы обычно не используются), порты R1 и R2 - для выпуска отработанного воздуха. Для предотвращения попадания пыли и снижения уровня шума в портах R1 и R2 рекомендуется использовать пневмоглушители. Порты A и B для подвода сжатого воздуха к цилиндрам располагаются на боковой поверхности промежуточных плит с обеих сторон. Неиспользуемые порты должны перекрываться с помощью резьбовых заглушек.



Данные для закза

Обозначение	состоящая из:	ISO 1 (EVS7-6)		ISO 2 (EVS7-8)		
		Присоедини-	Номер для заказа	Присоедини-	Номер для заказа	
		тельная резьба		тельная резьба		
Секция плиты	Плита пневмораспределителя/кольцевые прокладки	G1/4	EAXT502-1A-A02-L	G3/8	EAXT512-1A-A03-L	
пневмо-	круглого профиля/адаптерная плита/винты/стяжки					
распределителя	(IS01) или скобы (ISO 2)/заглушки					
Секция плиты	Плита пневмораспределителя/кольцевые прокладки	G3/8	EAXT502-1A-A03-L	G1/2	EAXT512-1A-A04-L	
пневмо-	круглого профиля/адаптерная плита/винты/стяжки					
распределителя	(IS01) или скобы (ISO 2)/заглушки					
Концевая	Концевая плита слева/кольцевые прокладки круглого	G3/8	EAXT502-LA-03	G1/2	EAXT512-LA-04	
плита	профиля/стяжки (IS01) или скобы (ISO 2)/винты					
левая	и гайки/заглушки					
Концевая	Концевая плита справа/кольцевые прокладки круглого	G3/8	EAXT502-RA-03	G1/2	EAXT512-RA-04	
плита	профиля/стяжки (IS01) или скобы (ISO 2)/винты					
правая	и гайки/заглушки					

Пневмораспределители типоразмера ISO 3 (EVS7-10) не имеют модульной системы плит





Данные по заказу

1. Подключение индивидуального подвода и выпуска воздуха

Путем установки разделительной заглушки могут перекрываться сквозные каналы Р, EA, EB между плитами пневмораспределителей.

Наименование	Номер для заказа ISO 1 (EVS7-6) ISO 2 (EVS7-8)				
	ISO 1 (EVS7-6)	ISO 2 (EVS7-8)			
Разделительная заглушка	AXT502-14	AXT512-14-1A			
		AXT512-14-2A			

Возможности использования

- При снабжении 2 групп пневмораспределителей различными давлениями на входе. Соответственно, Р1 должен иметь подвод воздуха со стороны правой, а Р2 - со стороны левой концевой плиты.
- При снабжении 2 групп пневмораспределителей воздухом с содержанием и без содержания масла.
- При индивидуальной деаэрации крупного потребителя (быстрый выпуск).
 Деаэрация этого потребителя идет через одну концевую плиту, а деаэрация остального блока идет через другую концевую плиту.

2. Защитная крышка

В определенных случаях блок плит пневмораспределителей для общего монтажа устанавливается на оборудование, которое позднее может укомплектовываться дополнительными пневматическими приводами. Для этой цели используется защитная крышка. Она закрывает незанятые монтажные позиции на плите, которые по мере надобности могут быть оснащены пневмораспределителем.

Наименование	Номер для заказа		
	ISO 1 (EVS7-6)	ISO 2 (EVS7-8)	
Защитная крышка с уплотнениями,	AXT502-9A	AXT512-9A	
винтами, шайбами			

3. Промежуточная плита индивидуального подвода воздуха

- С индивидуальным подводом Р

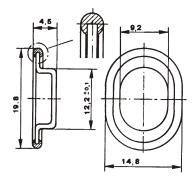
Для блоков, работающих с более, чем двумя давлениями или с чрезвычайно большим расходом воздуха (для обдува и т.п.) рекомендуется использовать промежуточную плиту с индивидуальным подводом "Р".

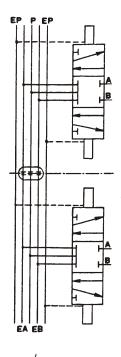
Наименование	Номер для заказа	
	ISO 1 (EVS7-6)	ISO 2 (EVS7-8)
Промежуточная плита с индивидуальным входом Р G1/4 (IS0 1), G3/8 (ISO 2) с уплотнением,	EVV71-P-02-L	EVV72-P-03-L
винтами		

- С индивидуальным дросселированием

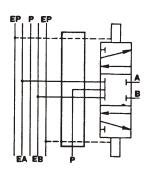
Служит для регулировки расхода, напр. для регулировки скорости поршня с блока пневмораспределителей.

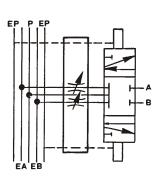
Наименование	Номер для заказа	
	ISO 1 (EVS7-6)	ISO 2 (EVS7-8)
Промежуточная плита с пневмо-	AXT503-23A	AXT510-32A
дросселями, уплотнениями,		
винтами		











Данные по заказу

- С индивидуальной деаэрацией

Промежуточные плиты могут применяться в случаях, когда требуется обеспечить быстрый выпуск воздуха, деаэрацию крупного потребителя и т.д. Плиты могут монтироваться на любой секции пневмораспределителя и осуществляют выпуск воздуха независимо от общих деаэрационных каналов EA и EB.

Наименование	Номер для заказа	
	ISO 1 (EVS7-6)	ISO 2 (EVS7-8)
Промежуточная плита	EVV71-R-02-L	EVV72-R-03-L
с индивидуальной деаэрацией R		
G1/4(ISO1), G3/8 (ISO 2)		
с уплотнениями, винтами		
Промежуточная плита	EVV71-R-03-L	EVV72-R-04-L
с индивидуальной деаэрацией R		
G3/8 (ISO 1), G1/2 (ISO 2)		
с уплотнениями, винтами		

EP P EP EA

- С обратным клапаном

Каждый пневмораспределитель со стальным золотником по своей конструкции не является абсолютно герметичным. Для остановки поршня цилиндра в среднем положении рекомендуется применять промежуточную плиту. В комбинации с трехпозиционными пневмораспределителями с открытым средним положением она гарантирует 100%-ю герметичность.

Наименование	Номер для заказа			
	ISO 1 (EVS7-6)	ISO 2 (EVS7-8)		
Промежуточная плита с обратным	EVV71-FPG	EVV72-FPG		
клапаном с уплотнениями,				
винтами				

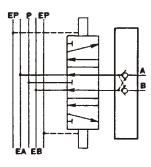
- С регулятором давления

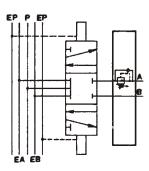
Регулятор давления используется для монтажа на участке между базовой плитой и пневмораспределителем и может поставляться в трех исполнениях:

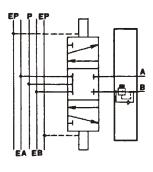
- для регулирования давления на выходе А
- для регулирования давления на выходе В
- для регулирования давления на входе Р

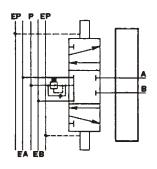
Применяется для регулирования усилия зажима в пневмопатронах крутящего момента в пневматических инструментах, усилия подачи при обработке, а также натяжения (бумаги, текстиля, проволоки и т.д.) при наматывании и навивании путем регулирования давления на пневматических муфтах или натяжных роликах с приводом от цилиндров.

Наименование	Номер для заказа	3
	ISO 1 (EVS7-6)	ISO 2 (EVS7-8)
Промежуточная плита	ARB250-00-B	ARB350-00-B
с регулятором давления		
на выходе В с уплотнениями,		
винтами		
Промежуточная плита	ARB250-00-A	ARB350-00-A
с регулятором давления		
на выходе А с уплотнениями,		
винтами		
Промежуточная плита	ARB250-00-P	ARB350-00-P
с регулятором давления		
на входе Р с уплотнениями,		
винтами		











Данные по заказу

4. Плиты для монтажа пневмораспределителей с внешним подводом пилотного воздуха

Если пневмораспределители серии ISO/CNOMO переключаются на пилотную функцию "R" (снабжение пилотным воздухом снаружи) и должны при этом монтироваться на общей плите вместе с пневмораспределителями, установленными на функцию "I" (внутреннее снабжение пилотным воздухом), для секции, где

предусмотрена эксплуатация пневмораспределителя серии ISO/CNOMO с управлением от воздуха, поступающего снаружи, должна использоваться монтажная плита с внешним подводом пилотного воздуха. В этом случае подвод пилотного воздуха осуществляется через резьбовое отверстие 1/8′,

расположенное на поверхности монтажной плиты со стороны портов А и В. Далее, сквозной канал РЕ пилотной деаэрации для этой секции должен быть отсечен от других позиций для того, чтобы пилотный воздух мог подводиться только на соответствующие секции.

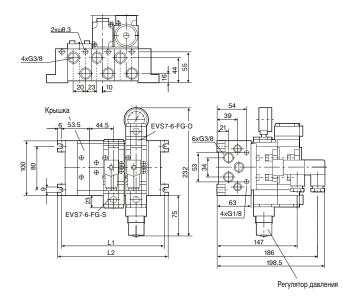
Наименование	ISO 1 (EVS7-6)		ISO 2 (EVS7-8)		
	Ввод	Номер для заказа	Ввод	Номер для заказа	
Плита пневмораспределителя для монтажа в блоки с внешним подводом	G1/4	EAXT502-1A-A02-L-PE01F	G3/8	EAXT512-1A-A03-L-PE01F	
пилотного воздуха / кольцевые прокладки круглого профиля / адаптерная					
плита / винты / стяжки (ISO 1) или скобы (ISO 2) / заглушки	G3/8	EAXT502-1A-A03-L-PE01F	G1/2	EAXT512-1A-A04-L-PE01F	

Наименование	Номер для заказа			
	ISO 1 (EVS7-6)	ISO 2 (EVS7-8)		
Разделительная заглушка для канала РЕ	AZ503-53A	AZ512-49A		
(пилотная деаэрация)				

Размеры

EVS7-6

Пример с различными пневмораспределителями, крышкой и регулятором давления



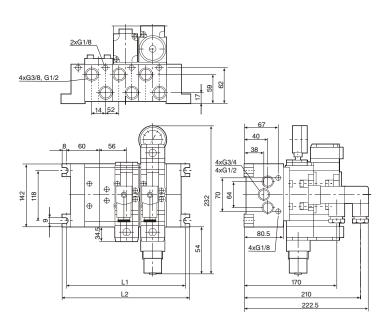
Данные по заказу многосекционных плит пневмораспределителей см. на стр. 216

Кол. секций	2	3	4	5	6	7	8	9	10
L1	150	193	236	279	322	365	408	451	494
L2	162	205	248	291	334	377	420	463	506
Bec(r)*	1840	2290	2740	3190	3730	4180	4630	5080	5530

^{*} Вес указан без учета пневмораспределителей

Размеры

EVS7-8 Пример с различными пневмораспределителями, крышкой и регулятором давления



Данные по заказу многосекционных плит пневмораспределителей см. на стр. 216.

Кол. секций	2	3	4	5	6	7	8	9	10
L1	176	232	288	344	400	456	512	568	624
L2	192	248	304	360	416	472	528	584	640
Вес (г) *	2020	2560	3100	3640	4180	4720	5260	5800	6340

^{*} Вес указан без учета пневмораспределителей



5/2 пневмораспределитель для высокого давления

NVS

Rc3/8, Rc1/2

• Предназначен для работы на высоком давлении до 2.0 МПа

Технические характеристики

Среда	Очищенный сжатый воздух с содержанием масла или без него
Тип управления	Внутреннее пилотное управление
Диапазон рабочих температур (°C)	От +5 до +60
Макс. рабочее давление (МПа)	2.0
Вспомогательное ручное управление	Не блокируется
Монтажное положение	Произвольное
Электрический подвод	DIN-разъем
Напряжение	24 V DC
Индикатор рабочего состояния	Нет

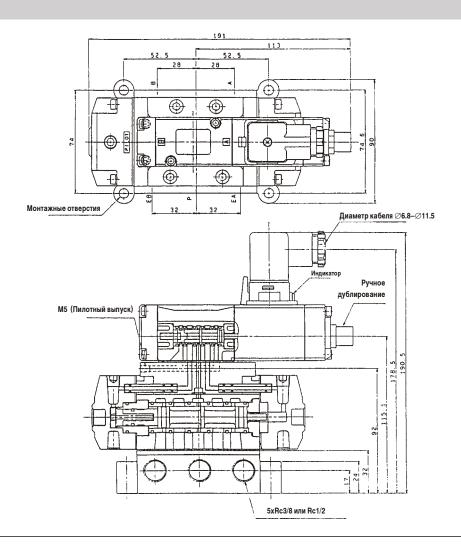


Номер для заказа

Номер для заказа	Напряжение	Тип	Условное	Присоединительная
			обозначение	резьба, Rc(РТ)
NVS4114-0352FP-X1	24 V DC	5/2 с пружинным возвратом	PE MAN	3/8
NVS4114-0452FP-X1				1/2

^{*} В комплект поставки входят присоединительная плита и ответная часть разъема

Размеры



5/2, 5/3 пневмораспределитель с электропневматическим управлением

VP4000

Rc3/8, Rc1 1/2

- Высокая пропускная способность
- Высокая скорость срабатывания
- Минимальные утечки
- Высокая устойчивость к вибрации
- Высокая степень защиты от пыли и влаги
- Высокая надежность

Технические характеристики

TOMINI TOOTING Mapani			
Среда		Очищенный сжатый воздух с содержанием масла	
Тип управления		Внутреннее пилотное управление	
Испытательное давл	ение (МПа)	1.35	
Рабочий диапазон да	авления (МПа)	0.2 ~ 0.9	
Диапазон рабочих те	емператур (С)	От +5 до +60	
Макс. частота сраба	тывания (Гц)	3	
Смазка		Требуется (турбинное масло класс 1 ISO VG32)	
Вспомогательное ру	чное управление	Не блокируется	
Монтажное положение Произвольное			
Электрический подв	од	DIN разъем	
Напряжение* (В)	DC	24	
	AC	220	
Допуск по напряжен	ию	От -15% до +10%	
Потребляемая	DC, BT	12	
мощность	AC, BA	73 при переключении	
		28 при удержании	
Класс изоляции		В	
Искрогашение		По запросу	
Индикатор рабочего	состояния	По запросу	
		• • •	

The state of the s

Пневмоуправляемые распределители поставляются по запросу

Монтаж на многосекционной плите - по запросу

Номер для заказа

						г
	A			RT		
15-5	15-	5		8		5
15-5	15-	ж	<u>'''\</u> _\ /	1	9	5
15-5	15-	Т	R1 P R2			
15-15	15-1			1	58	
17-15	17-1			11	15	95
17-15	17-1			11	1	95
5-5	5-	5	A B	8		
5-5	5-	Т-		1	9	
5-5	5-		R1 P R2			8
5-15	5-1			1	58	8
7-15	7-1			11	15	1
7-15	7-1			11	1	1
5-5	5-	5	A B	8		
5-5	5-			1	9	
5-5	5-	ж	R1 P R2		55	
5-15	5-1	Т		1		
5-5	5-	5	A A B	8		
5-5	5-			1	9	
5-5	5-	ж	R1 P R2		55	·
5-15	5-1	TT		1		

Рекомендации

1. Соединения с пневмомагистралями.

Подвод воздуха к порту Р должен быть выполнен так, чтобы давление воздуха на входе не становилось ниже, чем требуемое рабочее давление.

Если воздух дросселируется на порте Р, или порты А и В открыты в атмосферу (либо находятся в условиях, близких к этим), возникающие при течении воздуха потери давления могут вызвать нарушения в работе пневмораспределителя.

2. Окружающая среда.

Установите пневмоглушители в порты EA/EB/PilotEXH для предотвращения попадания пыли из окружающего пространства внутрь изделия.

3. Пневмораспределитель VP4350 (трехпозиционный с закрытым центром).

Следует иметь в виду следующую особенность конструкции данного пневмораспределителя. Когда пневмоцилиндр остановлен в промежуточном положении, и при этом давление воздуха на входе (порт Р) снизилось или упало до атмосферного, воздух будет истекать из пневмоцилиндра через порт Р. Это может привести пневмоцилиндр в движение.

Запасные части

Наименование	Напряжение	Номер для заказа
Запасной элемент включения	24 V DC	VT3112-005D
с катушкой электромагнита	220 V AC	VT3112-004D

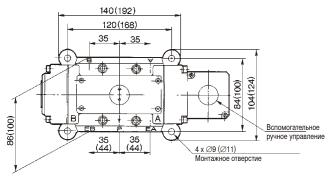
^{*} Другие напряжения по запросу

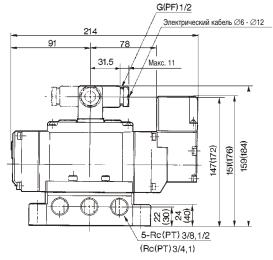


5/2, 5/3 пневмораспределитель с электропневматическим управлением **VP4000**

Размеры

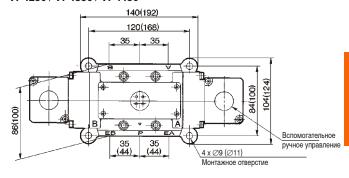
VP4150

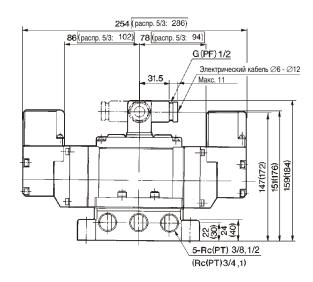




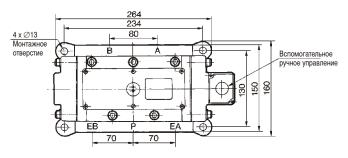
* Размеры в скобках () для исполнений с присоединительной резьбой Rc(PT) 3/4, 1

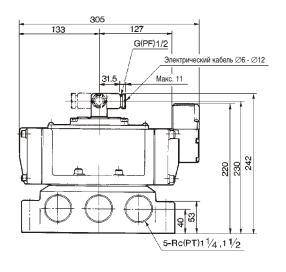
VP4250 / VP4350 / VP4450



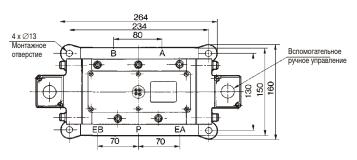


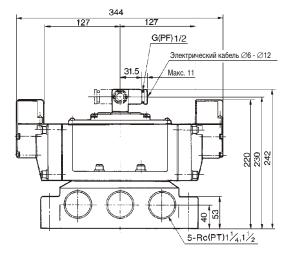
VP4170





VP4270





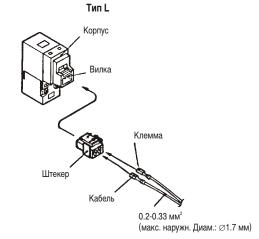
Пневмораспределители с электрическим управлением

Принадлежности

Ответные части разъемов для пневмораспределителей с электрическим управлением серии SY/VJ/SYJ

Штекер с кабелем, без оболочки, без предохранительного колпака

Длина кабеля (мм)	Номер для заказа
600	SY100-30-4A-6
2000	SY100-30-4A-20
3000	SY100-30-4A-30



Штекер с кабелем, с оболочкой, с предохранительным колпаком

Длина кабеля (мм)	Номер для заказа
600	SY100-68-A-6
2000	SY100-68-A-20
3000	SY100-68-A-30



Ответные части разъемов для пневмораспределителей с электрическим управлением серии VZ/EVZ

Штекер с кабелем, без оболочки, без предохранительного колпака

Длина кабеля (мм)	Номер для заказа
600	DXT170-80-4A-6
2000	DXT170-80-4A-20
3000	DXT170-80-4A-30

Штекер с кабелем, с оболочкой, с предохранительным колпаком

rate to a	
Длина кабеля (мм)	Номер для заказа
600	DXT170-123-A-Б
2000	DXT170-123-A-20
3000	DXT170-123-A-30

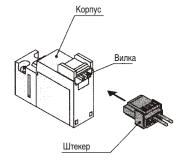


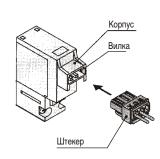


Ответные части разъемов для пневмораспределителей с электрическим управлением серии VO110/VO120

Штекер с кабелем, без оболочки

Длина кабеля (мм)	Номер для заказа
600	AXT661-14AN-6
1000	AXT661-14AN-10
2000	AXT661-14AN-20
3000	AXT661-14AN-30







Пневмораспределители с электрическим управлением Принадлежности

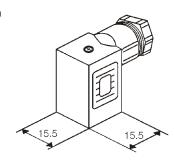
Ответные части разъемов для пневмораспределителей с электрическим управлением серии SY в конструктивном исполнении по

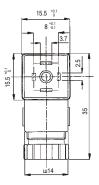
Без индикатора рабочего состояния, без искрогашения

Напряжение	Номер для заказа
24 V DC / 220 V AC	K41

С индикатором рабочего состояния и искрогашением

Напряжение	Номер для заказа
24 V DC	K43
220 V AC	K44





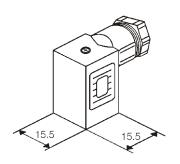
Ответные части разъемов для пневмораспределителей с электрическим управлением серии VK/VZ в конструктивном исполнении

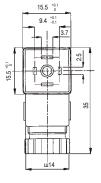
Без индикатора рабочего состояния, без искрогашения

Напряжение	Номер для заказа
24 V DC / 220 V AC	K31

С индикатором рабочего состояния и искрогашением

Напряжение	Номер для заказа
24 В пост. тока	K33





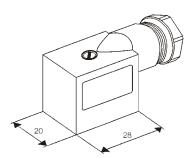
Ответные части разъемов для пневмораспределителей с электрическим управлением серии EVT/V0307

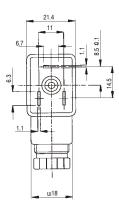
Без индикатора рабочего состояния, без искрогашения

Напряжение	Номер для заказа
24 V DC / 220 V AC	V31

С индикатором рабочего состояния и искрогашением

Напряжение	Номер для заказа
24 V DC	V32
220 V AC	V30





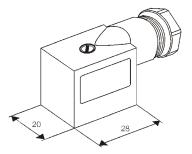
Ответные части разъемов для пневмораспределителей с электрическим управлением серии EVP/EVF/VFS

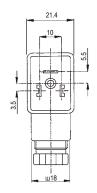
Без индикатора рабочего состояния, без искрогашения

Напряжение	Номер для заказа
24 V DC / 220 V AC	X31

С индикатором рабочего состояния и искрогашением

	Напряжение	Номер для заказа
	24 V DC	X32
ĺ	220 V AC	X30





Ответные части разъемов для пневмораспределителей с электрическим управлением серии EVS7/ EVT317/ VO317

Без индикатора рабочего состояния, без искрогашения

Напряжение	Номер для заказа
24 V DC / 220 V AC	A0

С индикатором рабочего состояния и искрогашением

Напряжение	Номер для заказа
24 V DC	A6
220 V AC	A7

