

High Capacity & Simple Choices

Series SY

5 Port Rubber Seal Solenoid Valve



Series SY 9000 newly released



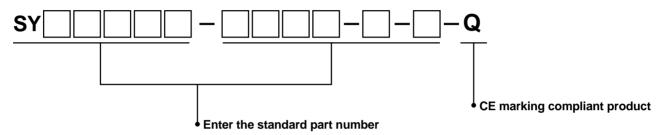


CE Marking Compliant Products

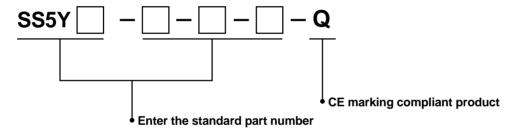
The SY series complies with the EMC Directive and the Low Energy Directive based on approval by TÜV Rheinland, an EC Notified Body (EC authorization No. 0197).

When ordering CE marking compliant products, add "- Q" at the end of the standard part number.

How to order valves



How to order manifolds



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



Table of Conten	ts •	Features		Fea
		Cylinder Speed ChartValve Variations		Features
Body Ported		Manifold Variations		U,
Cin ale Velue			P. 1 to 18	- (O
Single Valve	all to		P. 1 to 16	ingle /alve
		Bar Stock Manifold/Individual Wiring	P. 37 to 42	Type 20
		Stacking Manifold/Individual Wiring	P. 43 to 46	Type 23
Single valve Bar stock manifold		Bar Stock Manifold/Flat Ribbon Cable	P. 47 to 52	Type 20P
Base Mounted		Stacking Manifold/Flat Ribbon Cable	P. 53 to 58	Type 23P
Single Valve			P. 19 to 36	Single valve
	ð	Bar Stock Manifold/Individual Wiring	9 P. 59 to 68	Type 41
Single valve				Type 42
Bar stock manifold	d e	Stacking Manifold/Individual Wiring	P. 69 to 74	Туре 43
	hed	Bar Stock Manifold/Flat Ribbon Cabl	e P. 75 to 82	Type 41P
Stacking manifold				Type 42P
	Stacking Mani	fold/DIN Rail/Individual Wiring	P. 83 to 94	Type 43P
	Stacking Mani	ifold/Flat Ribbon Cable	P. 95 to 105	Type 45
	Stacking Mani	fold/DIN Rail/Connector Box	P. 106 to 114	Type 45-NA
Stacking Manifold/DIN Rail/P	ug-in Valve		P. 115 to 156	٦ 4.5
				_ □ p
Type 45F Type 45P□ D-sub connector Flat ribbon			Type 45S1□ Serial transmission (separate type)	
SY300/500 3 Port Valve	es		P. 157 to 161	3 port valve
	5 Port/A SYA300	ir Operated Valves 0/5000/7000	P. 162 to 176	Air operated
Order Made ■ Type 45S2/serial typ ■ Type 45S3/serial typ	e with OMRON G71-	-OD16	P. 177 to 190	Order made
■ External pilot and bu ■ Mixed mounting type ■ DIN connector (DIN- ■ Body ported type with	e 43650C standard) th external pilot	Manifold Specification Sheets	P. 191 to 229	Manifold spec. sheets
■ Main valve fluoro rul ■ Energy saving solen		3/5 Port Solenoid Valve Precautions Specific Product Precautions	P. 230 to 232 P. 233 to 238	Precautions

High Capacity & Simple Choices

5 Port Solenoid Valves **SY3000/5000/7000/9000**

Low power consumption: 0.5W

(Current value: 21mA at 24VDC)

Low power consumption enables direct operation by a PLC, and cost savings are realized through the use of a smaller power supply and switching elements and the elimination of relay cards.

[An energy saving type [0.22W] is also available. Refer to page 190 for details.]

Compact design with high flow capacity of 1.7 to 3 times the Cv factor with the same body width

The same size cylinder can be driven with a valve one physical size smaller than a conventional type, contributing greatly to both space and cost savings.

Valves to drive cylinders of sizes ø6 to ø200

Pressure: 0.5MPa, Load factor: 50%

Base		Cylinder						Су	/linde	er bo	re si	ze r	nm						
mounted	Cv	speed	Ser	ies (J2	S	eries	s CIV	12	S	erie	s ME	3/CA	1		Ser	ies (CS1	
(sub-plate)		mm/s	ø6	ø10	ø16	ø20	ø25	ø32	ø40	ø40	ø50	ø63	ø80	ø100	ø125	ø140	ø160	ø180	ø200
		150																	
		300																	
SY3000	0.3	450																	
		600																	
		750																	
		150																	
		300																	
SY5000	0.7	450																	
		600																	
		750																	
		150													*	*			
		300											*	*					
SY7000	1.2	450										*	*						
		600										*							
		750									*	*							
		150															*	*	*
		300												*	*	*			
SY9000	2.8	450											*	*					
		600										*	**	*					
		750										*	*						



^{*} Cylinder speeds are for extension of the cylinder.

Long life exceeding 50 million cycles

(Based on SMC life test conditions.)

Long life is achieved by a new pilot design, guide rings that prevent main valve eccentricity, and a stronger return force.





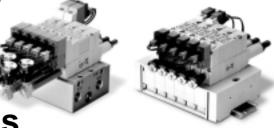
^{*} The "*" symbol indicates conditions with SGP (steel piping).

New

5 port solenoid valve series SY9000
 Cv 2.8 (base mounted type with sub-plate)

 Interface regulator series ARBY3000/5000 (for series SY3000/5000)





High speed response: 10ms

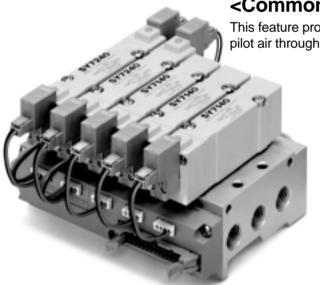
(SY3000 single solenoid, 0.5MPa, 20°C) (representative value)

The innovative design of the pilot valve makes it possible to achieve a short response time of 10ms while consuming only a half watt of power.

Exhaust mist and noise from the pilot valve are eliminated.

<Common exhaust construction for main/pilot valves>

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



Interchangeable cylinder port sizes

<Body ported type>

		Interd	hange	eable por	t sizes
SY3000	С	4		C6	M5
SY5000	C4	С	6	C8	Rc1/8
SY7000	С	8		C10	Rc1/4
SY9000	C8	C10	C12	Rc1/4	Rc3/8

C# = Tube fitting cartridge size

• For SY5000

[SY5000-6A-01]

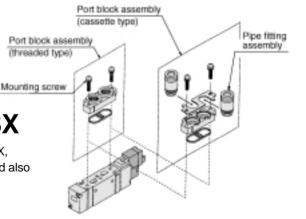
[SY5000-6A-C6]

Outstanding seal performance

Special rubber seals in the main valve offer improved durability and performance, greatly reducing valve failures under a wide range of operating conditions.

Same valve footprint as series SX

The non-plug-in type manifold base and sub-plate are common with series SX, making it possible to mount both series SX and SY on the same manifold, and also reducing base inventory when both series are being used.



Clean aesthetics and state-of-the-art design

Bright white colors and a clean design have been adopted to complement high-tech operating environments.

Values presented in this catalog are for reference and are not guaranteed.



Cylinder Speed Chart

Body ported type

* Values in the chart below are for reference. Confirm the actual conditions with the SMC sizing program.

												31 -3				
							(Cylinde	r bore si	ze mm						
	Cylinder	Series	CJ2		Series	CM2			Series	MB/CA	1			Series	CS1	
	speed	Pressu	ire 0.5N	/IPa	Pressu	re 0.5N	ЛРа		Pressu	ire 0.5N	/IPa			Pressu	ire 0.5N	⁄IРа
Series	mm/s	Load fa	actor 50)%		actor 50			Load fa	actor 50)%				actor 50	
	11111/5	Cylinde	er stroke	60mm	Cylinde	er stroke	e 300m	m	Cylinde	er stroke	500m	m		Cylinde	r stroke 1	1000mm
		ø6	ø10	ø16	ø20	ø25	ø32	ø40	ø40	ø50	ø63	ø80	ø100	ø125	ø140	ø160
CV2420	150															
SY3120	300															
-C6	450															
Cv = 0.23	600															
- · · · · · · · ·	750															
0)/5400	150															
SY5120	300															
-01	450															
Cv = 0.59	600															
	750															
0)/7400	150															
SY7120	300															
-02	450															
Cv = 0.87	600															
OV = 0.07	750															
CV0420	150														*	*
SY9120	300												*			
-03	450											*				
Cv = 2.1	600										*	*				
J 2.1	750										*					

Base mounted type (with sub-plate)

The speed of CJ2 and CM2 cylinders is controlled by a fixed orifice built into the cylinder.

* Cylinder speeds are for extension of the cylinder.

* Cylinder speeds are for extension of the cylinder.

* The "*" symbol indicates conditions with SGP (steel piping).

				,		,	,		Cylinde	r bore s	ize mm						,	
Series	Cylinder speed mm/s	Load fa	ure 0.5Nactor 50	0%		ure 0.5M actor 50	0%	m	Pressu Load fa	MB/CA ure 0.5N actor 50 er stroke	MPa 0%	m		Load f	CS1 lre 0.5ľ actor 5 er strok	0%	mm	
		ø6	ø10	ø16	ø20	ø25	ø32	ø40	ø40	ø50	ø63	ø80	ø100	ø125	ø140	ø160	ø180	ø200
SY3140	150																	
	300																	
-01	450																	
Cv = 0.3	600																	
	750																	
07/24/40	150																	
SY5140	300																	
-02	450																	
Cv=0.7	600																	
	750																	
SY7140	150													*	*			
	300											*	*					
-03	450										*	*						
Cv = 1.2	600										*							
	750									*	*							
01/01/10	150															*	*	*
SY9140	300												*	*	*			
-04	450											*	*					
Cv = 2.8	600										*	*	*					
	750								The spee									L

Conditions

Body p	orted type	Series CJ2	Series CM2	Series MB/CA1	Series CS1			
SY3120	Tube bore x Length		ø6 x 1m		_			
-C6	Speed controller		51F-06 (S =					
(Cv = 0.23)	Silencer	AN120	0-M5 (Cv =	: 0.27)				
SY5120	Tube bore x Length	ø6 x 1m	ø8 >	c1m	_			
-01	Speed controller	AS3001F-06 (Cv = 0.36)	3 (Cv = 0.56)					
(Cv = 0.59)	Silencer	AN10	1-01 (Cv =	1.11)				
SY7120	Tube bore x Length	ø6 x 1m		x 1m	_			
-02	Speed controller	AS3001F-06 (Cv = 0.36)	AS4001F-10	O(Cv = 0.89)				
(Cv = 0.87)	Silencer	AN110	0-01 (Cv =	1.94)				
SY9120	Tube bore x Length	ø6 x 1m		x 1m				
-03	Speed controller	AS3001F-06 (Cv = 0.36)	AS400 (Cv =)1F-12 1.17)				
(Cv = 2.1)	Silencer		AN200-02	(Cv = 1.94)	94)			

Conditions [with SGP (steel tube)]

Body p	orted type	Series CS1
SY9120	Steel tube size x Length	SGP3/8 x 1m
-03	Speed controller	AS420-03 (Cv = 4.11)
(Cv = 2.1)	Silencer	AN400-04 (Cv = 5)

Conditions

Base mo	ounted type	Series CJ2	Series CM2	Series MB/CA1	Series CS1
SY3140	Tube bore x Length		ø6 x 1m	•	_
-01	Speed controller	AS300)1F-06 (S =	= 0.36)	_
(Cv = 0.3)	Silencer	AN11	0-01 (Cv =	1.94)	_
SY5140	Tube bore x Length			c1m	_
-02	Speed controller	AS3001F-06 (Cv = 0.36)	AS3001F-08	3 (Cv = 0.56)	_
(Cv = 0.7)	Silencer	AN110	0-01 (Cv =	1.94)	_
SY7140	Tube bore x Length		ø10 x 1m		x 1m
-03	Speed controller	AS3001F-06 (Cv = 0.36)	AS3001F-08 (Cv = 0.56)		01F-10 : 1.17)
(Cv = 1.2)	Silencer		AN200-02	Cv = 1.94)
SY9140	Tube bore x Length		ø10 x 1m	ø12	x 1m
-04	Speed controller	AS3001F-06 (Cv = 0.36)	AS4001F-10 (Cv = 0.89)	AS40 (Cv =	01F-12 : 1.17)
(Cv = 2.8)	Silencer		AN200-02	(Cv = 1.94))

Conditions [with SGP (steel tube)]

Base mo	ounted type	Series MB/CA1	Series CS1				
SY7140	Steel tube size x Length	SGP3/					
-03	Speed controller	AS420-03	(Cv = 4.11)				
(Cv = 1.2)	Silencer	AN300-03	(Cv = 3.67)				
SY9140	Steel tube size x Length	SGP1/	2 x 1m				
-04	Speed controller	AS420-04 (Cv = 5)					
(Cv = 2.8)	Silencer	AN400-04	4 (Cv = 5)				



Valve Variations

				Ту	/pe c	of ac	tuati	on	V	oltage	Ele	ctric	al e	ntry	Note 1)
				2 pos	sition	3 p	osit	ion	DC	AC		ector	ector	_	age supp
	Series	S	Effective area mm² (Cv factor)	Single	Double	Closed center	Exhaust center	Pressure center	24V 12V 6V 5V 3V	100V 50/60Hz 110V 50/60Hz 200V 50/60Hz 220V 50/60Hz	Grommet	L type plug connector	M type plug connector	DIN terminal	Note 1) Indicator light/Surge voltage suppressor
type	Page 1	SY3□20	4.14 (0.23)	•	•	•	•	•	•	•	•		•	_	•
rted t		SY5□20	10.6 (0.59)	•	•	•	•	•	•	•	•		•	•	•
Body ported type		SY7 □20	16.2 (0.9)	•	•	•	•	•	•		•	•	•	•	•
Boo		SY9 □20	38.23 (2.12)	•	•	•	•	•	•	•	•	•	•	•	
type	Page 19	SY3□40	5.4 (0.3)	•	•	•	•	•	•	•	•	•	•	_	•
nted		SY5□40	12.6 (0.7)	•	•	•	•	•	•	•	•	•	•	•	•
Base mounted type		SY7□40	21.6 (1.2)	•	•	•	•	•	•	•	•	•	•	•	•
Base	100	SY9□40	51.71 (2.87)	•	•	•	•	•	•	•	•	•	•	•	•

			1anu verrio			P, I	EA,	EΒ	oort	size				A, I	Вро	ort s	size						0	ptio	ns		_
	Series	Non-locking push type	Push-turn locking slotted type	Push-turn locking lever type	Bracket	M5	Rc	Rc	Rc 3/8	Rc	M5	Rc	Rc	Rc	Rc		ne-to	ouch	fitti	ng	Exhaust throttle	(except turbine oil)	Vacuum specification	Low pressure specification	bressure	enclosure Note 3)	Interface regulator
		Non-lockir	Push-turn loci	Push-turn loc	_		1/8	1/4	3/8	1/2		1/8	1/4	3/8			C6	C8	C10	C12	Exhau	Oil resistant (e	Vacuum s	Low pressur	Reverse	IP65 e	Interface
ype	SY3□20	•	•	•	•	•	_		_	_	•	_	_	_	_	•	•	_	_	_							
rted t	SY5□20	•	•	•	•	_	•		_	_	_	•	_	_		•	•	•									
Body ported type	SY7 □20	•	•	•	•	_	(EA, EB)	(P)	_	_	_	_	•	_	_	_	_	•	•				External pilot	External pilot	External pilot	terminal	
Bod	SY9□20	•	•	•	_	_	_	•	_	_	_	_	•	•	_	_	_	•	•	•			Note 2)	Note 2)	Note 2)		
type	SY3□40	•	•	•	_	_	•	_	_	_	_	•	_	_	_	_	_	_	_								
nted	SY5□40	•	•	•	_	_	_	•	_	_	_	_	•	_	_	_	_	_	_	_							
Base mounted type	SY7□40	•	•	•	_	_	_	•	•	_	_	-	•	•	_	_	_	_	_	_	Sub-plate		External pilot	External pilot	External pilot	I DIN terminal	
Base	SY9□40	•	•	•	_	_	_	_	•	•	_		_	•	•	_	_	_	_	_							

Note 1) All AC voltages have built-in surge voltage suppressor as standard.

Note 2) Body ported external pilot type (order made product) is not available for DIN terminal type.

Note 3) Only available for DIN terminal type.

3 port Air valve operated

Manifold Variations

								Wir	ing				
					(\$		Conne	ection)			Com	mon cations
	Manifold variations		Valve series	Individual wiring	Flat ribbon cable (26 pins)	Connector box (Flat ribbon cable 20 pins)	D-sub connector (25 pins) <plug-in type=""></plug-in>	Flat ribbon cable (26, 20, 10 pins) <plug-in type=""></plug-in>	Terminal block (9, 18 pins) <plug-in type=""></plug-in>	PC wiring	Serial transmission unit	Positive COM	Negative COM
			5 port	٤	Flat	(Flat	D-suk	Flat rib	Term		Ser	<u></u>	Z
	Bar stock type Individual wiring	Туре 20	SY3□20										
43	■ Direct piping to the main unit of valve. Combination of different fittings is possible.	Page 37	SY5□20		_	_	_	_	_	_	_	_	_
Jay 7		000	SY7□20										
<u>5</u>	Bar stock type Flat ribbon cable	Type 20P	SY3□20										
T a	■ A 26 pin MIL connector permits one-touch wiring of external cables in a bundle.	Page 47	SY5□20	-		_	_	_	-	_	_	Com	mon
00	Sables III a Ballale.		SY7□20										
Body ported type	Stacking type Individual wiring Addition/Removal of manifold stations is possible.	Type 23 Page 43	SY9□20	•	_	_		_	_	_		_	_
	Stacking type Flat ribbon cable ■ Addition/Removal of manifold stations is possible.	Type 23P Page 53	SY9□20	_	•	_		_	_	_		Com	mon
	Compact bar stock type Individual wiring	Type 41	SY3□40		_	_		_		_	_	_	_
	■ The base mounting facilitates maintenance when valves are changed.	Page 59	SY5□40										
	Compact bar stock type Flat ribbon cable	Type 41P	SY3□40	_		_	_	_		_	_		
	■ A 26 pin MIL connector permits one-touch wiring of external cables in a bundle.	Page 75	SY5□40									Com	mon
	Bar stock type/Common external pilot Individual wiring	туре 42	SY3□40										
	■ The base mounting facilitates maintenance when valves are changed.	Page 59	SY5□40		_	_	_	_	-	_	_	_	_
06	■ Vacuum/low pressure combination system is possible.		SY7□40										
	Bar stock type/Common external pilot Flat ribbon cable	Type 42P	SY3□40										
t o	■ A 26 pin MIL connector permits one-touch wiring of external cables in a bundle.	Page 75	SY5□40		•	_	_	_	-	_	_		
	■ Vacuum/low pressure combination system is possible.		SY7□40									Com	mon
Base mounted	Stacking type Individual wiring Addition/Removal of manifold stations is possible.	Type 43 Page 69	SY9□40	•	_	_		_	_	_		_	_
Bas	Stacking type Flat ribbon cable ■ Addition/Removal of manifold stations is possible.	Type 43P Page 83	SY9□40	-	•	_	_		_		_	Com	mon
	Stacking type/DIN rail Individual wiring	туре 45	SY3□40										
	■ Stations can be changed on the DIN rail. Integral mounting of other parts is possible.	Page 95	SY5□40		_	_	_	_		_	_	_	_
	Stacking type/DIN rail Connector box	Type 45- A	SY3□40										
	■ Stations can be changed on the DIN rail. The provided connector box permits one-touch connection of electric cables.	Page 106	SY5□40										
	Stacking type/DIN rail Plug-in type	туре 45	SY3□40	_	_								
	Stations can be changed on the DIN rail. A variety of centralized wiring methods are possible. Standard Option	Page 115	SY5□40										

- Standard Option ▲ Order made (See "Order Made Specifications" pages.)

Manifold Variations

		Mar	nifolo	l opti	ons					-	А, В	por	t siz	e							Valv	e op	tions	•				Single valve
Blanking plate	Individual SUP spacer	Individual EXH spacer	SUP Block disc	EXH Block disc	Labels for block disc	Silencer with One-touch fitting	Built-in silencer	M5	Rc 1/8	Rc 1/4	Rc 3/8	Oı	ne-to	ouch	fitti	ng	SY3000, SY5000 Mixed mounting	Oil resistant (except specified turbine oil)	Vacuum specification	Low pressure specification	Different pressure	Reverse pressure	Exhaust throttle	Bundled wiring	Mixed fitting sizes	IP65 enclosure	Interface regulator	Type 20
Blank	Individua	Individua	SUPE	EXH	Labels fo	Siler One-to	Built-ir					C4	C6	C8	C10	C12	SY300 Mixed	Oil (except spe	Vacuum	Low pressu	Differer	Reverse	Exhau	Bund	Mixed f	IP65 e	Interfac	Type 23
								•	_	_	_	•	•	_	_	_		_								Note)		Type 20P
									_	•	_	_	_	•	•						Individual SUP spacer		Individual EXH spacer			Note)		Type 23P
•			_	_	_	_		_	_ •	_	_	•	•	_ •	- -	- -	_		_	_	•	_		•	_	_		Single valve
								_	_	•	_	_	_	•	•	_					Individual SUP spacer		Individual EXH spacer				_	Type 41
•	•	•	•	•	•	_	_	_	_	•	•	_	_	•	•	•	_	A	External pilot	External pilot	Individual SUP block disc	External pilot	Individual EXH	_	_	Note)		e Type
•	•	•			•	_		_	_	•	•	_	_	•	•	•	_	A	External pilot	External pilot	Individual SUP block disc	External pilot	Individual EXH	•	_			e Type
•		•	_	_	_	_	_	• _	_ •	_	_	• -	•	_ •	 -	- -	_	•	_	_	Individual SUP spacer	_	_	_	_	Note)		e Type 41P
•		•	_	_	_	_	_	•	_	_	_	•	•	_	_	_	_	A	_	_	Individual SUP	_	_	•	_	_		e Type 42P
									•	_	_	•	•	_	_						spacer					_		Type 43P
			_	_	_	_	_	<u> </u>	_	•	_	_ 	• _	• _	_ •	- -	_	•	External pilot	External pilot	Individual SUP spacer	External pilot	_	_	_	Note)	_	
								_	•	_	_	•	•	_	_	_												Type Ty 45 45
			_	_	_	_	_	_	_	•	_	_	_	_	•	- -	_		External pilot	External pilot	Individual SUP spacer	External pilot	_	•	_	_		Type T
	•	•	•	•	•	•		_	_	•	•	_	_	•	•	•	_	A	External pilot	External pilot	Individual SUP block disc	External pilot	Individual EXH	_	•	Note)		Type 45□
•	•	•	•	•		•		_	_	•	•	_	_	•	•	•	_	A	External	External	Individual SUP block disc	External	Individual	•	•	_	_	
•				•		•	A	_	_	_	_	•	•	_	_	_	•	A	pilot	pilot	Individual SUP spacer	pilot	EXH	_	•	Note)		3 port valve
									_	_	_	•	•	_	_	_	_	_	External pilot	External pilot	or block disc Individual SUP							rt Air e operated
							_	_				•	•	•		- -			External pilot	External pilot	spacer or block disc							Order made
						•	•	_	_	_	_	•	•	•	_	_	A	•	External pilot	External pilot	Individual SUP spacer or block disc	_	_	•	•	_	<u> </u>	yer spe

Note) When using DIN terminal.

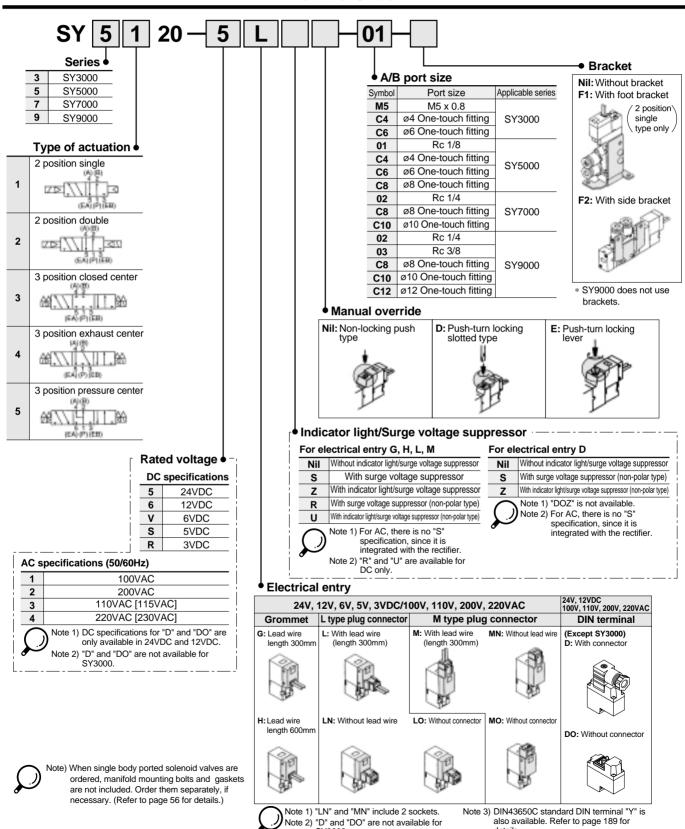
Features 6

Precautions

SY3000/5000/7000/9000 Body Ported Type Single Valve



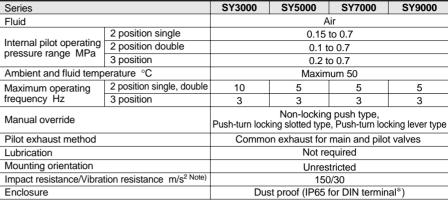
How to Order





Body Ported Type SY3000/5000/7000/9000

Specifications





In compliance with IEC529 standard.

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

Vibration resistance: No malfunction occurred in a one-sweep test between 8.3 and 2000Hz. Test was performed for both energized and de-energized states in the axial and right angle directions of the main valve and armature. (Value in the initial stage)

Solenoid specifications

Electrical entry			Grommet (G)/(H), L type plug connector (L), M type plug connector (M), DIN terminal (D) Note 1)		
Rated coil voltage V	DC		24, 12, 6, 5, 3		
Rated coll voltage v	AC 50/60Hz		100, 110, 200, 220 Note 2)		
Allowable voltage fluctuation			±10% of rated voltage		
Current consumption W	DC		0.5 [With indicator light: 0.55 (0.6 for DIN terminal with indicator light)] Note 3)		
		100V	0.9 (With indicator light: 1.0)		
		110V	1.0 (With indicator light: 1.1)		
	AC	[115V]	[1.1 (With indicator light: 1.2)]		
Apparent power VA	AC	200V	1.8 (With indicator light: 1.9)		
		220V	1.9 (With indicator light: 2.0)		
		[230V]	[2.2 (With indicator light: 2.3)]		
Surge voltage suppresso	or		Diodes (ZNR for DIN terminal, Zener diode for G, L or M non-polar type)		
Indicator light			LED (Neon bulb for AC type DIN terminal)		



Note 1) DIN terminal (D) is not available for SY3000.

Note 2) 110 and 115VAC are common, as are 220 and 230VAC.

Note 3) Energy saving [0.22W] type is also available. Refer to page 190 for details.

Response time



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

SY3000

	010000									
		Response time ms (at 0.5MPa)								
T	Type of actuation	Without indicator light/	•	rge voltage suppressor						
		surge voltage suppressor	S, Z types	R, U types						
	2 position single	12 or less	15 or less	12 or less						
	2 position double	10 or less	13 or less	10 or less						
	3 position	15 or less	20 or less	16 or less						

SY5000

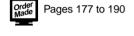
	Response time ms (at 0.5MPa)							
Type of actuation	Without indicator light/	With indicator light/surge voltage suppressor						
	surge voltage suppressor	S, Z types	R, U types					
2 position single	19 or less	26 or less	19 or less					
2 position double	18 or less	22 or less	18 or less					
3 position	32 or less	38 or less	32 or less					

SY7000

	Response time ms (at 0.5MPa)								
Type of actuation	Without indicator light/	With indicator light/surge voltage suppres							
	surge voltage suppressor	S, Z types	R, U types						
2 position single	31 or less	38 or less	33 or less						
2 position double	27 or less	30 or less	28 or less						
3 position	50 or less	56 or less	50 or less						

SY9000

319000						
	Respo	onse time ms (at 0.5MF	Pa)			
Type of actuation	Without indicator light/	With indicator light/surge voltage suppressor				
	surge voltage suppressor	S, Z types	R, U types			
2 position single	35 or less	41 or less	35 or less			
2 position double	35 or less	41 or less	35 or less			
3 position	62 or less	64 or less	62 or less			



SMC

2

Body Ported Type

Models/Series SY3000

.,,	T۱	pe of	Por	t size		ve area v factor)	Weig	ıht g
Valve model	ac	tuation	P, EA, EB	A, B	P to A/B	A/B to EA/EB	Grommet	L/M type plug connector
	pos.	Single			3.6 (0.2)	3.78 (0.21)	48	51
	2 p	Double			3.0 (0.2)	3.70 (0.21)	62	70
		Closed center			3.6 (0.2)	3.42 (0.19)		
SY3□20-□-M5	position	Exhaust center		M5 x 0.8	3.6 (0.2)	3.78 (0.21) [2.7 (0.15)]	65	72
	3 p	Pressure center			3.96 (0.22) [2.88 (0.16)]	3.6 (0.2)		
	pos.	Single			2.42 (0.40)	2.0 (0.2)	57	61
	2 p	Double			3.42 (0.19)	3.6 (0.2)	72	79
	position	Closed center		C4	3.42 (0.19)	3.42 (0.19)		
SY3□20-□-C4		Exhaust center	M5 x 0.8	(Ø4 One-touch fitting	3.42 (0.19)	3.78 (0.21) [2.7 (0.15)]	75	82
	3 9	Pressure center			3.6 (0.2) [2.16 (0.12)]	3.6 (0.2)		
	pos.	Single			3.6 (0.2)	4.44 (0.22)	53	57
	2 p	Double			3.0 (0.2)	4.14 (0.23)	68	75
		Closed center		C6	3.6 (0.2)	3.96 (0.22)		
SY3□20-□-C6	position	Exhaust center		Ø6 One-touch fitting	3.78 (0.21)	4.5 (0.25) [3.06 (0.17)]	71	78
	3 pc	Pressure center		. 3,	3.96 (0.22) [2.88 (0.16)]	3.96 (0.22)		

Note) Values inside [] are for normal position.

Models/Series SY7000

Valve model	T,	Type of		rt size		ve area v factor)	V	Weight g		
valve model		tuation	P, EA, EB	A, B	P to A/B	A/B to EA/EB	Grommet	L/M type plug connector	DIN terminal	
	pos.	Single			16.2 (0.9)	15.66 (0.87)	98	102	125	
	2 p	Double			10.2 (0.0)	10.00 (0.01)	114	121	167	
		Closed center			12.06 (0.67)	11.34 (0.63)				
SY7□20-□-02	3 position	Exhaust center		Rc 1/4	11.88 (0.66)	16.74 (0.93) [11.7 (0.65)]	122	129	175	
	3 p	Pressure center			17.1 (0.95) [11.16 (0.62)]	11.34 (0.63)				
	pos.	Single		/ ø8 \	13.86 (0.77)	13.68 (0.76)	104	108	131	
	2 p	Double	P port:		13.00 (0.77)	13.00 (0.70)	120	128	174	
		Closed center	Rc 1/4 EA,		11.52 (0.64)	10.44 (0.58)				
SY7□20-□-C8	3 position	Exhaust center			A, One-touch fitting	11.16 (0.62)	14.4 (0.8) [10.8 (0.6)]	128	136	182
	3 pc	Pressure center	EB ports: Rc 1/8	, 0,	14.58 (0.81) [10.62 (0.59)]	10.44 (0.58)				
	pos.	Single			45.04.(0.00)	44.04.(0.00)	100	103	126	
	2 p	Double			15.84 (0.88)	14.94 (0.83)	116	123	169	
		Closed center		C10	12.24 (0.68)	11.16 (0.62)				
SY7□20-□-C10	3 position	Exhaust center		Ø10 One-touch fitting	11.88 (0.66)	16.2 (0.89) [11.34 (0.63)]	124	131	177	
	3 pc	Pressure center		, 37	16.74 (0.93) [11.16 (0.62)]	11.34 (0.63)				

Note) Values inside [] are for normal position.

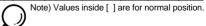
Models/Series SY5000

Value medal	Τv	pe of	Poi	t size		ve area v factor)	V	/eight	g	
Valve model		uation	P, EA, EB	A, B	P to A/B	A/B to EA/EB	Grommet	L/M type plug connector	DIN terminal	
	pos.	Single			9.18 (0.51)	10.6 (0.59)	67	70	93	
	2 p	Double			0.10 (0.01)	10.0 (0.00)	82	89	135	
	_	Closed center			7.38 (0.41)	7.92 (0.44)				
SY5□20-□-01	position	Exhaust center		Rc 1/8	7.56 (0.42)	12.06 (0.67) [8.28 (0.46)]	87	94	140	
	3 p	Pressure center			10.62 (0.59) [4.32 (0.24)]	8.46 (0.47)				
	pos.	Single			5.5 (0.31)	3.9 (0.22)	91	94	117	
	2 p	Double			3.3 (0.31)	3.9 (0.22)	105	113	159	
		Closed center		C4	5.3 (0.29)	3.9 (0.22)		118		
SY5□20-□-C4	position	Exhaust center		Ø4 One-touch fitting	5.3 (0.29)	3.9 (0.22)	111		164	
	3 p	Pressure center			5.7 (0.32)	3.9 (0.22)				
	2 pos.	Single	Rc 1/8		9 (0.5)	0 (0 5)	85	89	112	
		Double	1		9 (0.3)	9 (0.5)	100	107	153	
		Closed center		C6	7.2 (0.4)	7.38 (0.41)				
SY5□20-□-C6	position	Exhaust center		Ø6 One-touch fitting	7.38 (0.41)	9.72 (0.54) [7.2 (0.4)]	105	112	158	
	3р	Pressure center		(10.62 (0.59) [4.32 (0.24)]	7.2 (0.4)				
	pos.	Single	1		9.18 (0.51)	9.9 (0.55)	77	80	103	
	2 p	Double			9.16 (0.51)	9.9 (0.55)	92	99	145	
		Closed center		C8	7.38 (0.41)	7.92 (0.44)				
SY5□20-□-C8	position	Exhaust center		Ø8 One-touch fitting	7.38 (0.41)	11.88 (0.66) [7.74 (0.43)]	97	104	150	
	3 p	Pressure center			10.62 (0.59) [4.32 (0.24)]	7.92 (0.44)				

Note) Values inside [] are for normal position.

Models/Series SY9000

\/-h	Type of		Por	t size		ve area v factor)	Weight g		
Valve model		uation	P, EA, EB	A, B	P to A/B	A/B to EA/EB	Grommet	L/M type plug connector	DIN terminal
	pos.	Single			35.76 (1.99)	37.43 (2.08)	238	242	265
	2 p	Double			33.70 (1.33)	37.43 (2.00)	254	262	308
	_	Closed center		Rc 1/4	34.69 (1.93)	30.51 (1.70)			
SY9□20-□-02	position	Exhaust center			33.63 (1.87)	41.09 (2.28) [18.96 (1.05)]	278	286	332
	3р	Pressure center			37.99 (2.11)	31.62 (1.76) [15.22 (0.85)]			
	pos.	Single			37.90 (2.11)	38.23 (2.12)	233	237	260
	2р	Double			37.30 (2.11)	30.23 (2.12)	249	257	303
		Closed center			35.98 (2.00)	32.37 (1.80)			
SY9□20-□-03	3 position	Exhaust center		Rc 3/8	34.17 (1.90)	44.76 (2.49) [24.92 (1.38)]	273	281	327
	e g	Pressure center			39.94 (2.22)	32.97 (1.83) [14.67 (0.82)]			
	pos.	Single		fitting /	27.34 (1.52)	40.00 (0.00)	290	294	317
	2 p	Double			21.34 (1.32)	16.23 (0.90)	306	314	360
		Closed center	Rc 1/4		26.75 (1.49)	16.55 (0.92)			
SY9□20-□-C8	position	Exhaust center			26.17 (1.45)	16.42 (0.91) [15.68 (0.87)]	330	338	384
	3 pc	Pressure center			27.49 (1.53)	16.28 (0.90) [16.28 (0.90)]			
	pos.	Single			31.16 (1.73)	27 40 (4 52)	276	280	303
	2 p	Double			31.10 (1./3)	27.40 (1.52)	292	300	346
		Closed center		C10	30.74 (1.71)	26.08 (1.45)			
SY9□20-□-C10	3 position	Exhaust center		Ø10 One-touch fitting	30.02 (1.67)	27.13 (1.51) [18.26 (1.01)]	316	324	370
	3 pc	Pressure center		(32.28 (1.79)	26.36 (1.46) [15.10 (0.83)]			
	pos.	Single			22 45 (4 00)	25 04 /4 00\	262	266	289
	2 P	Double			33.45 (1.86)	35.81 (1.99)	278	286	332
		Closed center		C12	32.96 (1.83)	29.62 (1.65)			
SY9□20-□-C12	position	Exhaust center		Ø12 One-touch fitting	32.38 (1.80)	37.77 (2.10) [18.83 (1.05)]	302	310	356
	3 20	Pressure center			35.41 (1.97)	30.55 (1.70) [15.23 (0.85)]			





Series SY





Symbol: 2 position double



Symbol: 3 position closed center

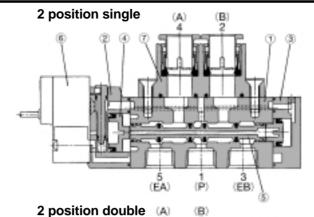


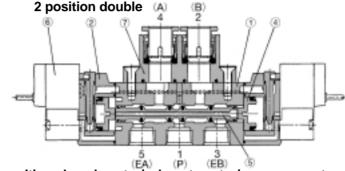
3 position exhaust center



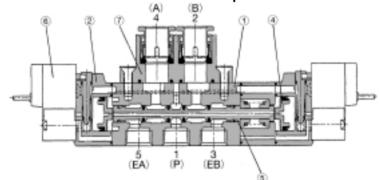
3 position pressure center







3 position closed center/exhaust center/pressure center



(The diagram above shows the closed center type.)

Parts list

No.	Description	Material	Note
1	Body	Die-cast aluminum (SY3000 is die-cast zinc.)	White
2	Adaptor plate	Resin	White (Gray for SY9000)
3	End plate	Resin	White
4	Piston	Resin	_
5	Spool valve assembly	Aluminum/NBR	_

Replacement parts

No.	Description	Part no.
6	Pilot valve assembly	Refer to "How to Order Pilot Valve Assemblies" on page 5.
7	Port block assembly	Refer to "How to Order Port Block Assemblies" on page 5.

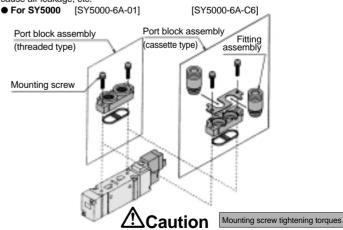
Bracket assembly part nos.

Description	Part no.
Bracket (for F1 type)	SX 5/000-16-2A (with mounting screws)
Bracket (for F2 type)	SX ₅ ³ 000-16-1A (with mounting screws)

^{*} Brackets are not available for SY9000.

How to Replace Port Block Assembly

With the body ported type, the A/B port size can be changed by replacing the port block assembly mounted on the body. Use appropriate tightening torque when replacing the port block assembly, as insufficient tightening of mounting screws will cause air leakage, etc.



SY3000 (M2): 0.12N·m SY 7000 (M3): 0.6N·m SY9000 (M4): 1.4N m

* Refer to "How to Order Port Block Assemblies" on page 5 for part numbers.

SMC

operated

Precautions

How to Order Pilot Valve Assemblies

LN

LO

М

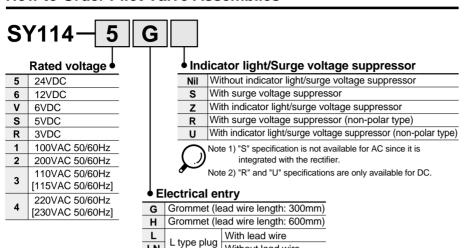
MN

MO

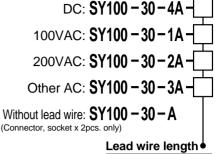
connector

M type plug

connector



How to Order Connector Assemblies



Nil	300mm
6	600mm
10	1000mm
15	1500mm
20	2000mm
25	2500mm
30	3000mm
50	5000mm

SY115 — 5 D

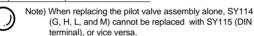
	Rated voltage •		
5	24VDC		
6	12VDC		
1	100VAC 50/60Hz		
2	200VAC 50/60Hz		
_	110VAC 50/60Hz		
3	[115VAC 50/60Hz]		
	220VAC 50/60Hz		
4	[230VAC 50/60Hz]		

N	II	vvitnout indicator light/surge voltage suppressor	
S With surge voltage suppressor (non-polar type)			
Z With indicator light/surge voltage suppressor (non-polar			
Note 1) "DOZ" is not available.			

Note 2) "S" specification is not available for AC since it is integrated with the rectifier.

Electrical entry

D DIN		With connector	
DO	terminal	Without connector	



Without lead wire

With lead wire

Without connector

Without lead wire

Without connector

How to Order Port Block Assemblies

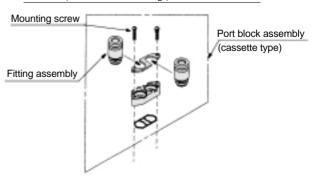


- 0	- 001100	
3	SY3000	
5	SY5000	
7	SY7000	
9	SY9000	

■ A/I	A/D port size					
Symbol	Port size	Applicable series				
M5	M5 x 0.8					
C4	ø4 One-touch fitting	SY3000				
C6	ø6 One-touch fitting					
01	Rc 1/8					
C4	ø4 One-touch fitting	CVEOO				
C6 Ø6 One-touch fitting		SY5000				
C8	ø8 One-touch fitting					
02	Rc 1/4					
C8	ø8 One-touch fitting	SY7000				
C10	ø10 One-touch fitting					
02	Rc 1/4					
03	Rc 3/8	SY9000				
C8	ø8 One-touch fitting					
C10	ø10 One-touch fitting					
C12	ø12 One-touch fitting					
		•				

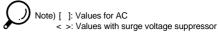
* Fitting assembly alone can be replaced also.

SY3000	ø4 One-touch fitting	VVQ1000-50A-C4
513000	ø6 One-touch fitting	VVQ1000-50A-C6
	ø4 One-touch fitting	VVQ1000-51A-C4
SY5000	ø6 One-touch fitting	VVQ1000-51A-C6
	ø8 One-touch fitting	VVQ1000-51A-C8
SY7000	ø8 One-touch fitting	VVQ2000-51A-C8
317000	ø10 One-touch fitting	VVQ2000-51A-C10
	ø8 One-touch fitting	VVQ4000-50B-C8
SY9000	ø10 One-touch fitting	VVQ4000-50B-C10
	ø12 One-touch fitting	VVQ4000-50B-C12

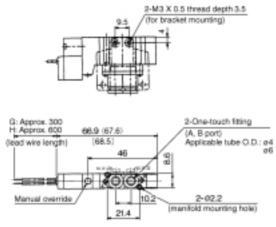


Polarity indication

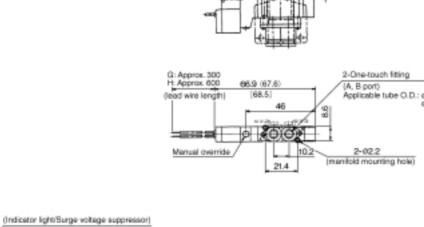




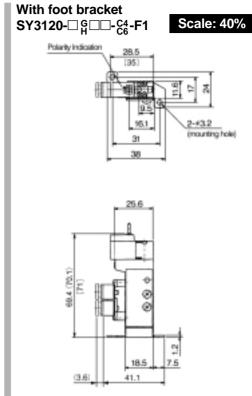
2 position single Grommet (G), (H): SY3120-□^G_H□□-^{C4}_{C6} (-F2)

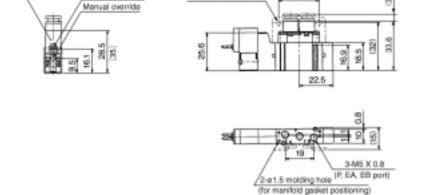


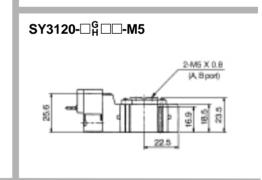
(for manifold gasket positioning)

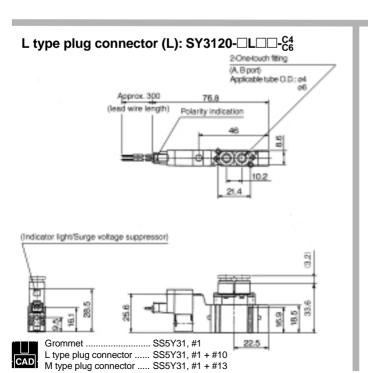


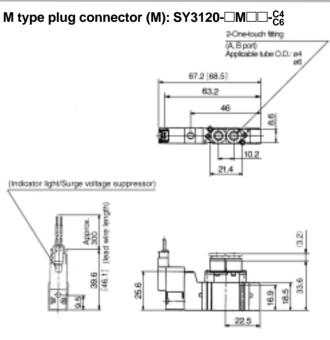
(2-e3.2 mounting hole)











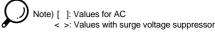
6

operated

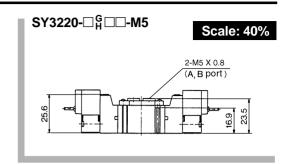
Order made

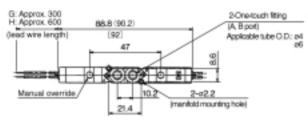
Series SY3000 Dimensions

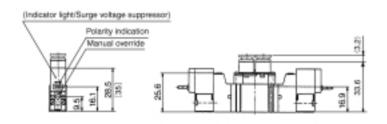


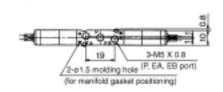


2 position double Grommet (G), (H): SY3220-□ H□□-C6

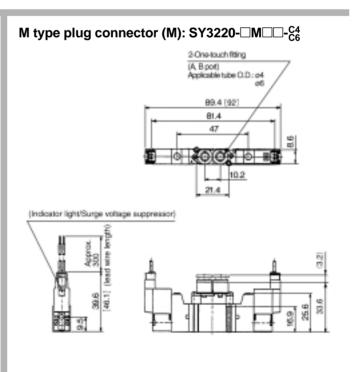




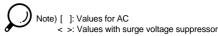




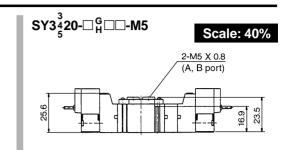
L type plug connector (L): SY3220-\(\subseteq\)L\(\subseteq\)-\(\cap{C4}{C6}\) 2-One-touch fitting (A, B port) Applicable tube O.D.: ø4 ø6 Approx. 300 108.6 (lead wire length) Polarity indication 10.2 21.4 (Indicator light/Surge voltage suppressor) 中 33.6 38.5 16.1 Grommet SS5Y31, #2 L type plug connector SS5Y31, #2 + #11 M type plug connector SS5Y31, #2 + #14

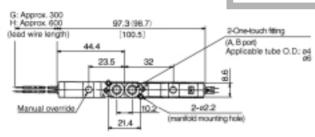


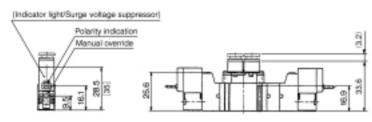


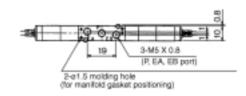


3 position closed center/exhaust center/pressure center Grommet (G), (H): SY3 $\frac{3}{4}$ 20- \square $^{G}_{H}\square\square$ - $^{C4}_{C6}$

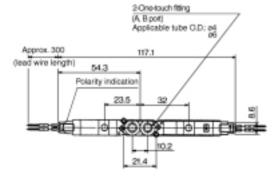


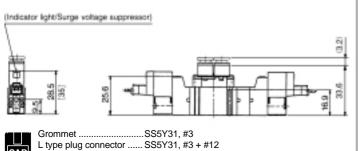






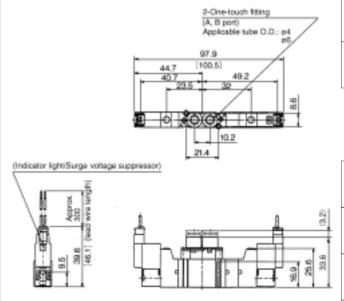
L type plug connector (L): SY3 $_5^3$ 20- \square L \square - $_{C6}^{C4}$





M type plug connector SS5Y31, #3 + #15

M type plug connector (M): SY3³/₅20-□M□□-^{C4}/_{C6}



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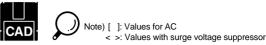
3 pc

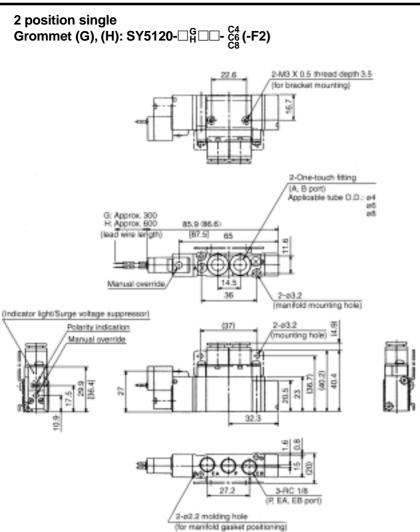
3 port Air Order valve operated made

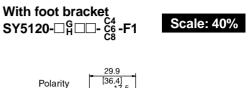
Manifold spec. sheets

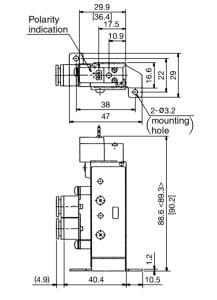
Precautions

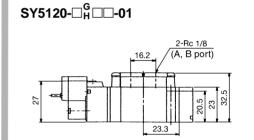
Series SY5000 Dimensions

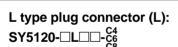


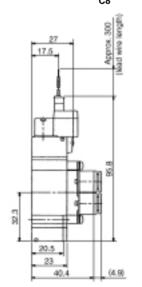






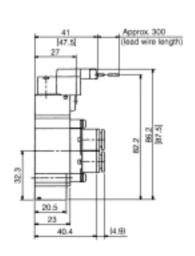




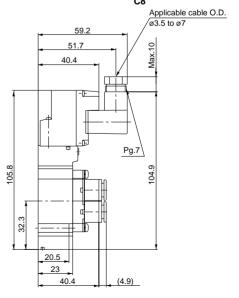


| GrommetSS5Y51, #1 | L type plug connectorSS5Y51, #1 + #11 | M type plug connectorSS5Y51, #1 + #14

M type plug connector (M): SY5120-□M□□-ce



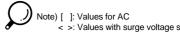
DIN terminal (D): SY5120-□D□□-C8

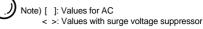


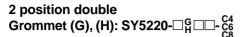


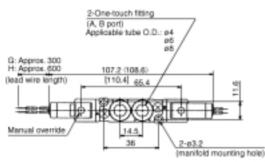
Body Ported Type SY3000/5000/7000/9000

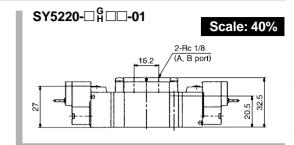


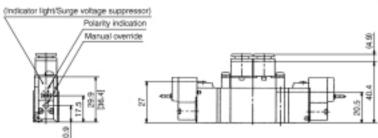


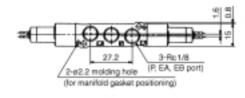




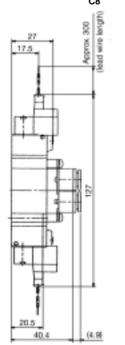








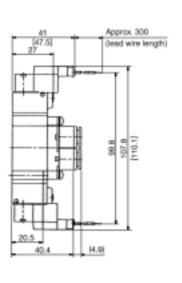
L type plug connector (L): SY5220-□L□□-C66



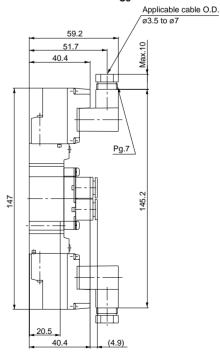
SS5Y51 #2 Grommet L type plug connector SS5Y51, #2 + #12 M type plug connector \$\$5Y51, #2 + #15

CAD

M type plug connector (M): SY5220-□M□□-C4



DIN terminal (D): SY5220-□D□□-C68

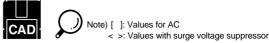


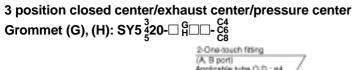
operated

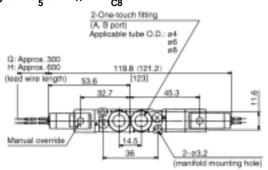
Order made

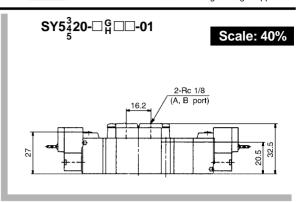
Precautions

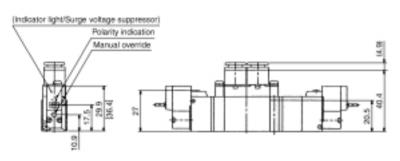
Series SY5000 Dimensions

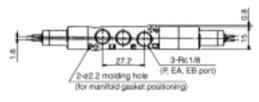








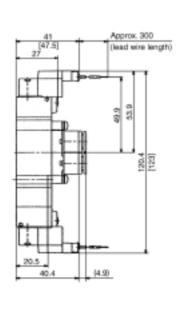




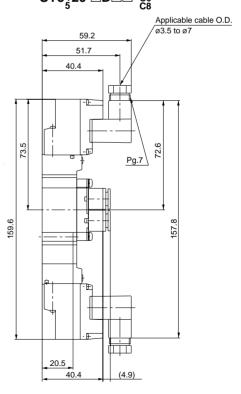
L type plug connector (L): SY5³/₅20-□L□□- ^{C4}_{C8}

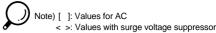
5 C8 (45km) aya pen)

 M type plug connector (M): SY5³/₄20-□M□□-^{C4}/_{C8}



DIN terminal (D): SY5³/₄20-□D□□- c6



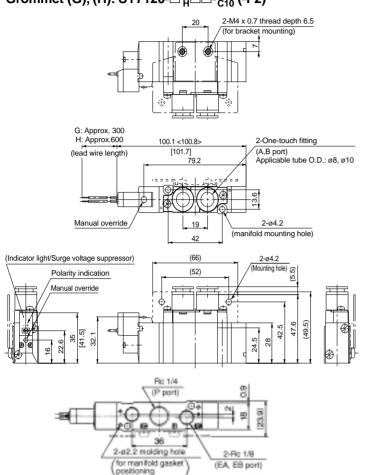


operated Order made

Precautions

2 position single Grommet (G), (H): SY7120-□ G□□-C8 (-F2)

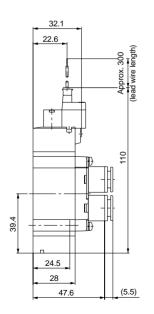
Series SY7000 Dimensions



Scale: 40% SY7120-□G□□-C8₁₀-F1 46 22.6 Polarity indicator 16 2-ø4.2 (mounting hole) 101.8 < 102.5> Φ [103.4] (5.5)

SY7120-□H□□-02 2-Rc 1/4 (A. B port) 24.5 8 39.4

L type plug connector (L): SY7120-\(\subseteq \subseteq \subseteq \colon \subseteq \sub

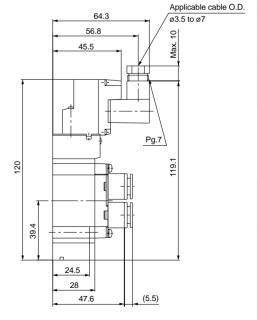


Approx. 300 (lead wire length) 100.4 96.4 39.4 24.5 47.6 (5.5)

M type plug connector (M):

SY7120-\(\text{M} \(\text{C}_{10}^{\text{C}_{10}} \)

DIN terminal (D): SY7120-□D□□-C8_{C10}



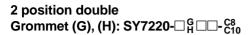
Grommet SS5Y71, #1 L type plug connector SS5Y71, #1 + #10 M type plug connector SS5Y71, #1 + #13

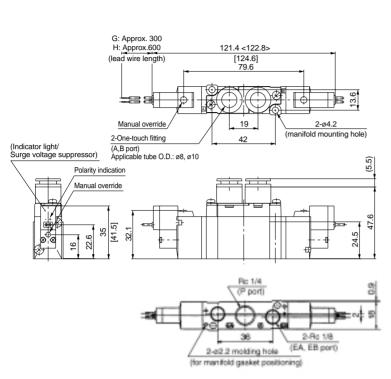
SMC

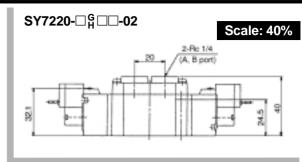
12

Series SY7000 Dimensions

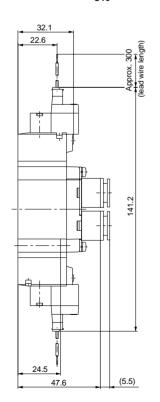




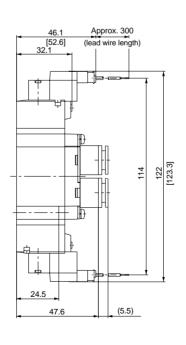


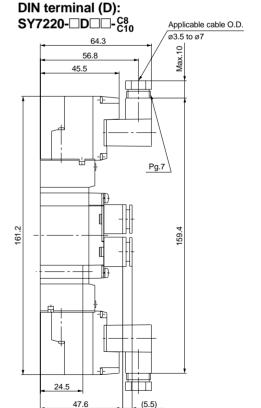


L type plug connector (L): SY7220-□L□□-C8_{C10}



M type plug connector (M): SY7220- \square M \square - $^{C8}_{C10}$



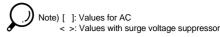


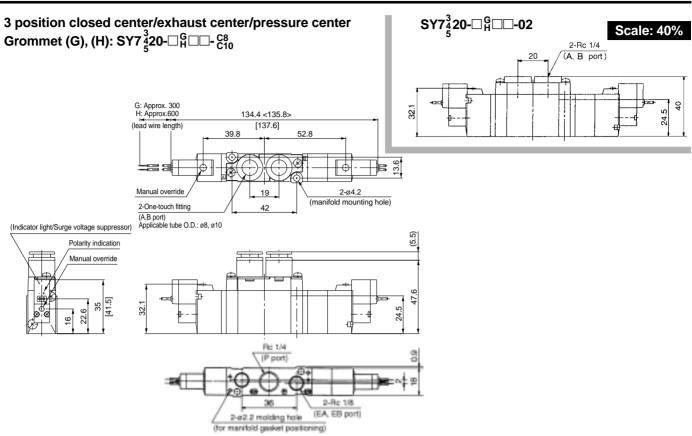
M type plug connector SS5Y71, #2 + #14



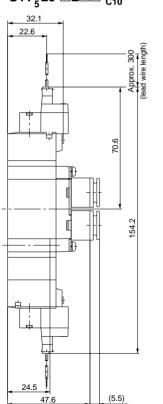
Body Ported Type SY3000/5000/7000/9000



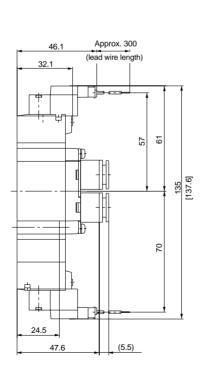




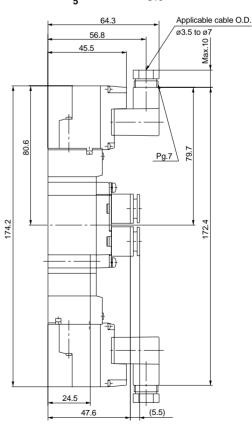
L type plug connector (L): $SY7\frac{3}{5}20-\Box L\Box \Box -\frac{C8}{C10}$



M type plug connector (M): $SY7_{\frac{4}{5}}^{3}20-\Box M\Box\Box^{C8}_{C10}$



DIN terminal (D): $SY7\frac{3}{5}20-\Box D\Box \Box -\frac{C8}{C10}$

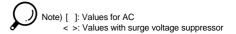


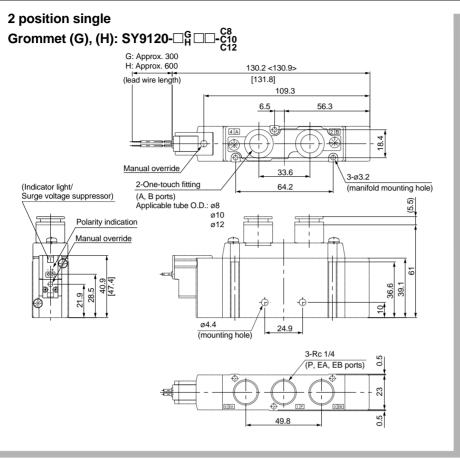
3 port Air Order valve operated made

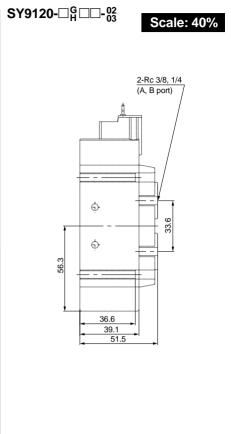
Manifold spec.

Precautions

Series SY9000 Dimensions

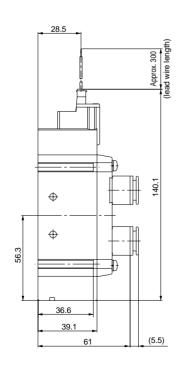


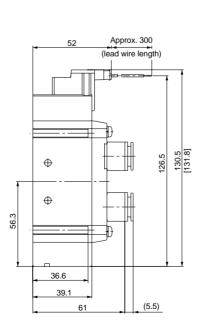


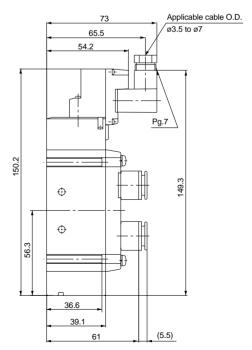


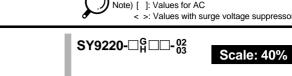
L type plug connector (L): SY9120-□L□□-C10/C12

M type plug connector (M): SY9120-□M□□-C10 C12 DIN terminal (D): SY9120-□D□□-C10 C12

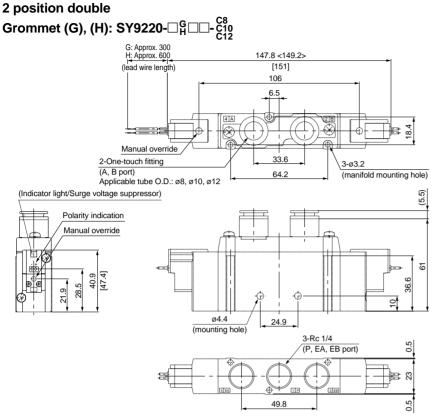


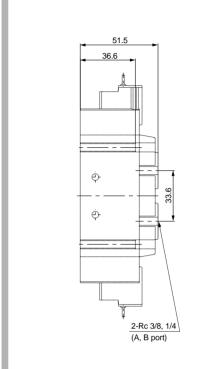






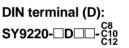
Body Ported Type

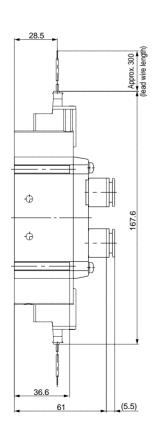


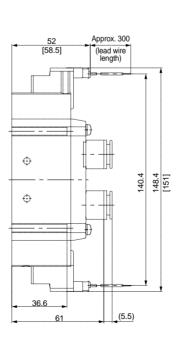


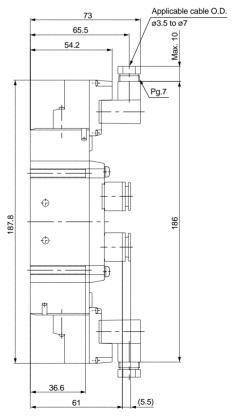
L type plug connector (L): SY9220-□L□□-C80 C12

M type plug connector (M): SY9220-□M□□-C8 C12









SMC

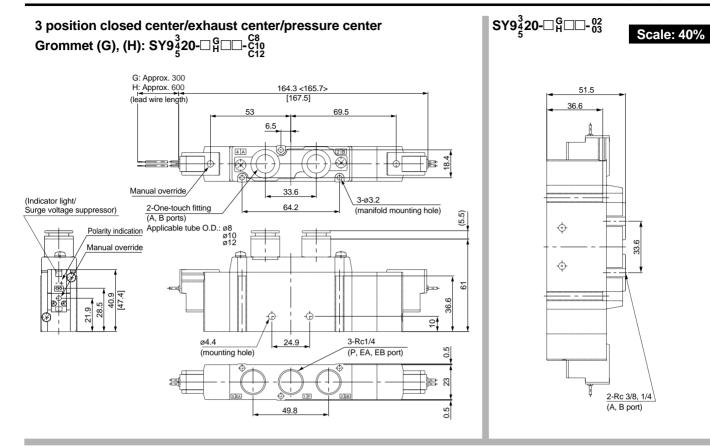
Precautions

operated

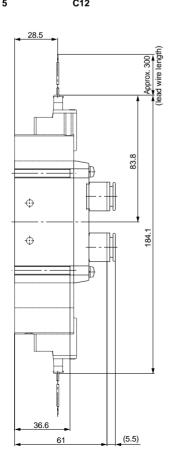
Order made

16

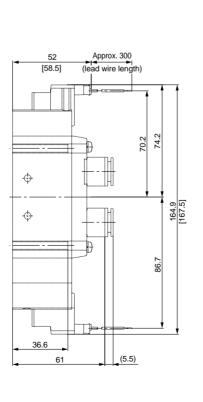
Series SY9000 Dimensions



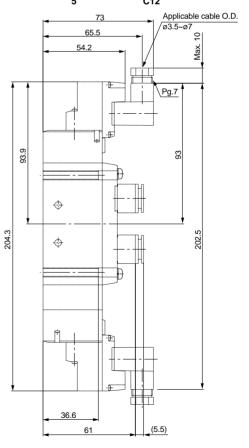
L type plug connector (L): $SY9^{3}_{5}20$ - \square L \square - $^{C8}_{C10}$



M type plug connector (M): SY9³/₅20-□M□□-C10 C12



DIN terminal (D): SY9³/₅20-□D□□-^{C8}_{C12}

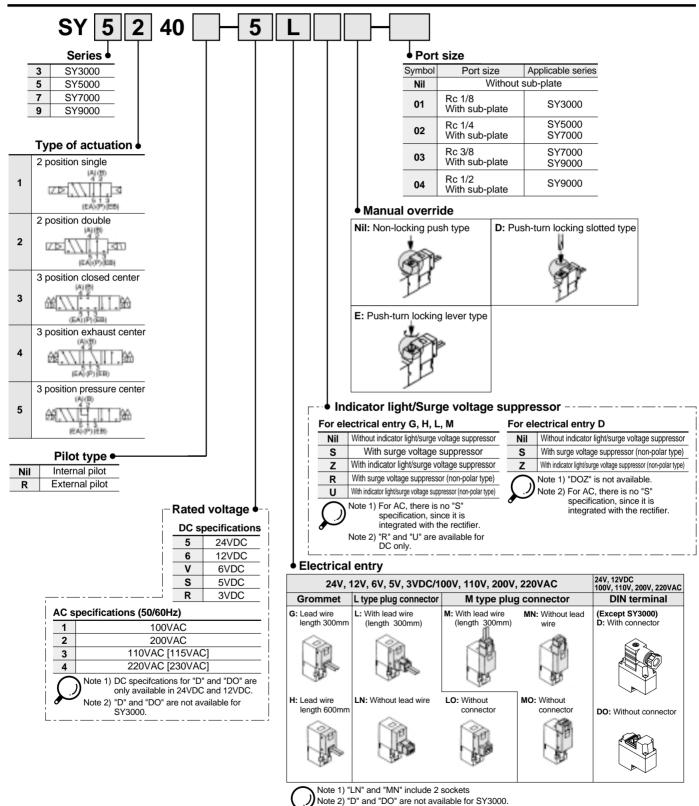




SY3000/5000/7000/9000 Base Mounted Type Single Valve



How to Order

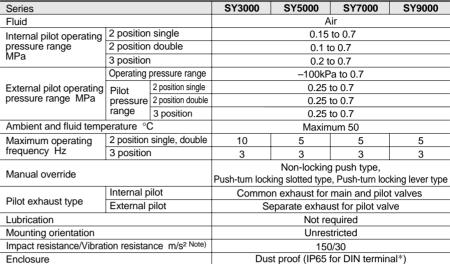




Note 3) DIN43650C standard DIN terminal "Y" is also available. Refer to page 189 for details.

Base Mounted Type SY3000/5000/7000/9000







Pages 177 to 190

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

Vibration resistance: No malfunction occurred in a one-sweep test between 8.3 and 2000Hz. Test was performed for both energized and de-energized states in the axial and right angle directions of the main valve and armature. (Value in the initial stage)

Solenoid specifications

<u> </u>				
Electrical entry			Grommet (G)/(H), L type plug connector (L),	
Liectical entry			M type plug connector (M), DIN terminal (D) Note 1)	
Rated coil voltage V	DC		24, 12, 6, 5, 3	
Rated coll voltage v	AC 5	0/60Hz	100, 110, 200, 220 Note 2)	
Allowable voltage fluctua	ition		±10% of rated voltage	
Current consumption W	DC		0.5 [With indicator light: 0.55 (0.6 for DIN terminal with indicator light)] Note 3	
	AC	100V	0.9 (With indicator light: 1.0)	
		110V	1.0 (With indicator light: 1.1)	
Apparent power VA		[115V]	[1.1 (With indicator light: 1.2)]	
		200V	1.8 (With indicator light: 1.9)	
		220V	1.9 (With indicator light: 2.0)	
		[230V]	[2.2 (With indicator light: 2.3)]	
Surge voltage suppressor			Diodes (ZNR for DIN terminal, Zener diode for G, L or M non-polar type)	
Indicator light			LED (Neon bulb for AC type DIN terminal)	



Note 1) DIN terminal (D) is not available for SY3000.

Note 2) 110 and 115VAC are common, as are 220 and 230VAC.

Note 3) Energy saving [0.22W] type is also available. Refer to page 190 for details.

Response time



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

SY3000

Response time ms (at 0.5MPa)			
Without indicator light/	With indic	ator light/ e suppressor	
suppressor	S, Z types	R, U types	
12 or less	15 or less	12 or less	
10 or less	13 or less	10 or less	
15 or less	20 or less	16 or less	
	Without indicator light/ surge voltage suppressor 12 or less 10 or less	Without indicator light/ surge voltage suppressor 12 or less 10 or less 13 or less	

SY7000

	Response time ms (at 0.5MPa)			
Type of actuation	Without indicator light/ surge voltage	With indicator light/ surge voltage suppresso		
	suppressor	S, Z types	R, U types	
2 position single	31 or less	38 or less	33 or less	
2 position double	27 or less	30 or less	28 or less	
3 position	50 or less	56 or less	50 or less	

SY5000

	Response time ms (at 0.5MPa)			
Type of actuation	Without indicator light/ surge voltage	With indicator light/ surge voltage suppressor		
	suppressor	S, Z types	R, U types	
2 position single	19 or less	26 or less	19 or less	
2 position double	18 or less	22 or less	18 or less	
3 position	32 or less	38 or less	32 or less	

SY9000

		Response time ms (at 0.5MPa)				
	Type of actuation	Without indicator light/ surge voltage	With indicator light/ surge voltage suppressor			
		suppressor	S, Z types	R, U types		
	2 position single	35 or less	41 or less	35 or less		
	2 position double	35 or less	41 or less	35 or less		
	3 position	62 or less	64 or less	62 or less		



20

Base Mounted Type

Models/Series SY3000

Valve model	Type of actuation		Port Effective		area ^{Note1)} factor)	Weight g Note 2)	
vaive model			size	P to A/B	A/B to EA/EB	Grommet	L/M type plug connector
	pos.	Single	Rc 1/8	4.86 (0.27)	5.4 (0.3)	81 (47)	85 (51)
	2 p	Double		4.86 (0.27)	5.4 (0.3)	96 (62)	103 (69)
	S position but	Closed center		4.68 (0.26)	4.86 (0.27)	98 (63)	105 (70)
SY3□40-□-01		Exhaust center		4.86 (0.27)	5.94 (0.33) [3.24 (0.18)]		
		Pressure center		6.66 (0.37) [3.24 (0.18)]	5.22 (0.29)		

Note 1) Values inside [] are for normal position.

Note 2) Values inside () are for valves without sub-plate.

Models/Series SY5000

Valve model	Type of actuation		Port	Effective area ^{Note1)} mm ² (CV factor)		vveignt g		
valve model			size	P to A/B	A/B to EA/EB	Grommet	L/M type plug connector	DIN terminal
	2 pos.	Single		12.78 (0.71)	12.6 (0.7)	118 (55)	121 (59)	154 (82)
		Double		12.78 (0.71)	12.6 (0.7)	133 (70)	140 (77)	186 (123)
		Closed center		7.56 (0.42)	8.1 (0.45)			
SY5□40-□-02	position	Exhaust center	Rc 1/4	7.92 (0.44)	14.4 (0.8) [9.0 (0.5)]	138 (76)		192 (129)
	3 pc	Pressure center		15.84 (0.88) [4.5 (0.25)]	34 (0.88) 8 64 (0.48)			



Note 1) Values inside [] are for normal position.

Note 2) Values inside () are for valves without sub-plate.

Models/Series SY7000

Valve model	Type of actuation		Port	Effective area ^{Note1)} mm ² (CV factor)		Weight g Note 2)		
valve model			size	P to A/B	A/B to EA/EB	Grommet	L/M type plug connector	DIN terminal
	2 pos.	Single	Rc 1/4 Rc 3/8	23.22 (1.29)	21.6 (1.2)	215 (86)	219 (90)	242 (113)
		Double		23.22 (1.29)	21.6 (1.2)	231 (102)	238 (109)	284 (155)
		Closed center		14.04 (0.78)	12.24 (0.68)			
SY7□40-□- ₀₃	3 position	Exhaust center		3 14.04 (0.78) 20.88 (1.16) 12.96 (0.72)	233 (104)	241 (112)	287 (158)	
		Pressure center		24.48 (1.36) [13.5 (0.75)]	12.42 (0.69)			



Note 1) Values inside [] are for normal position. Note 2) Values inside () are for valves without sub-plate.

Models/Series SY9000

Valve model	Type of actuation		Port	Effective area ^{Note1)} mm ² (CV factor)		Weight g Note 2)		
vaive model			size	P to A/B	A/B to EA/EB	Grommet	L/M type plug connector	DIN terminal
	pos.	Single		40.00 (0.04)	47.04 (0.00)	466 (169)	470 (173)	493 (196)
	2 p	Double		40.29 (2.24)	47.94 (2.00)	482 (185)	490 (193)	535 (239)
		Closed center		39.57 (2.20)	36.92 (2.05)			
SY9□40-□-03	position	Exhaust center	1	37.56 (2.09)	62.31 (3.46) [20.64 (1.15)]	506 (209)	514 (217)	560 (263)
	3 bc	Pressure center		57.25 (3.18)	37.51 (2.08) [16.48 (0.92)]			
	2 pos.	Single			51.71 (2.87)	445	449	472
		Double				461	469	515
		Closed center		40.24 (2.24)	37.61 (2.09)			
SY9□40-□-04	3 position	Exhaust center	Rc 1/2	39.76 (2.21)	64.12 (3.56) [20.76 (1.15)]	485	493	539
		Pressure center		59.21 (3.29)	37.85 (2.10) [15.23 (0.85)]			



Note 1) Values inside [] are for normal position.

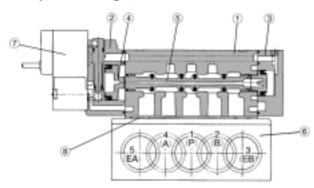
Note 2) Values inside () are for valves without sub-plate.

Construction

Series SY



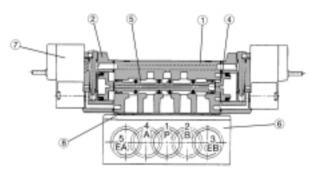
2 position single



Symbol: 2 position double



2 position double



Symbol: 3 position closed center



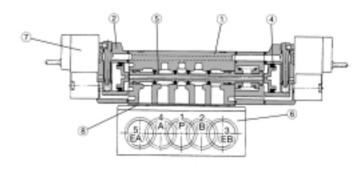
3 position exhaust center



3 position pressure center



3 position closed center/exhaust center/pressure center



(The diagram above shows the closed center type.)

Parts list

raits list						
No.	Description	Material	Note			
1	Body	Die-cast aluminum (SY3000 is die-cast zinc.)	White			
2	Adaptor plate	Resin	White (Gray for SY9000)			
3	End plate	Resin	White			
4	Piston	Resin	_			
5	Spool valve assembly	Aluminum/NBR	_			

Replacement parts

No.	Decemention		Par	Part no.		Note	
	Description	SY3□40	SY5□40	SY7□40	SY9□40	Note	
6	Sub-plate	SY3000-27-1	SY5000-27-1	Rc 1/4: SY7000-27-1 Rc 3/8: SY7000-27-2		Die-cast aluminum	
7	Pilot valve assembly		Refer to "How to Order Pilot Valve Assemblies" on page 23.				
8	Gasket	SY3000-11-25	SY5000-11-13	SY7000-11-7	SY9000-11-2	NBR	
_	Round head combination screw	SY3000-23-4 (M2 x 21)	M3 x 26	M4 x 31	SY9000-18-2 (M3 x 42)	For mounting valves (Flat nickel plated)	

∆ Caution

Mounting screw tightening torques
M2: 0.15N·m
M3: 0.6N·m
M4: 1.4N·m

operated

22

How to Order Pilot Valve Assemblies

L

LN

LO

М

MN

MO

SY114-Indicator light/Surge voltage suppressor Rated voltage Without indicator light/surge voltage suppressor **5** 24VDC 12VDC s With surge voltage suppressor 6 With indicator light/surge voltage suppressor ٧ 6VDC S 5VDC With surge voltage suppressor (non-polar type) R With indicator light/surge voltage suppressor (non-polar type) R 3VDC 1 100VAC 50/60Hz Note 1) "S" specification is not available for AC since it is 200VAC 50/60Hz integrated with the rectifier. Note 2) "R" and U" specifications are only available for DC. 110VAC 50/60Hz 3 [115VAC 50/60Hz] 220VAC 50/60Hz G Grommet (lead wire length: 300mm) [230VAC 50/60Hz] Grommet (lead wire length: 600mm) н

With lead wire

With lead wire

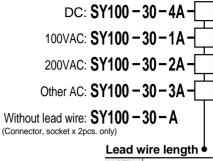
Without lead wire

Without connector

Without lead wire

Without connector

How to Order Connector Assemblies



M3: 0.6N·m

Lead wife length			
Nil	300mm		
6	600mm		
10	1000mm		
15	1500mm		
20	2000mm		
25	2500mm		
30	3000mm		
50	5000mm		

SY115 ח

Rated voltage

5	24VDC
6	12VDC
1	100VAC 50/60Hz
2	200VAC 50/60Hz
3	110VAC 50/60Hz
3	[115VAC 50/60Hz]
4	220VAC 50/60Hz [230VAC 50/60Hz]
4	[230VAC 50/60Hz]

Indicator light/Surge voltage suppressor

Nil	Without indicator light/surge voltage suppressor			
S	With surge voltage suppressor (non-polar type)			
Z With indicator light/surge voltage suppressor (non-polar				
* DOZ is not available.				



L type plug

connector

M type plug

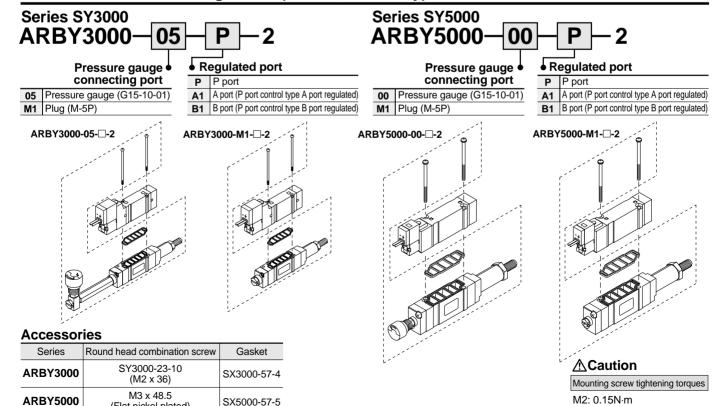
connector

* "S" specification is not available for AC since it is integrated with

Electrical entry

		<u> </u>
D	DIN	With connector
DO	terminal	Without connector

How to Order Interface Regulators (SY3000, 5000 only)



(Flat nickel plated)

Single valve

3 port valve

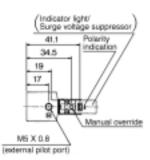
operated Order made

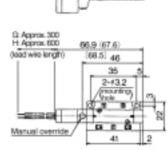
Precautions

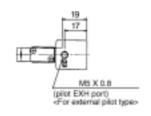
2 position single Grommet (G), (H): SY3140(R) -□G□□-01

Scale: 35%

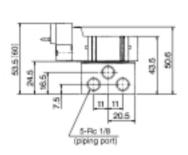


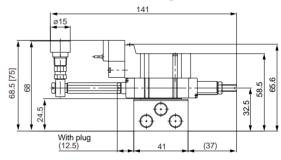




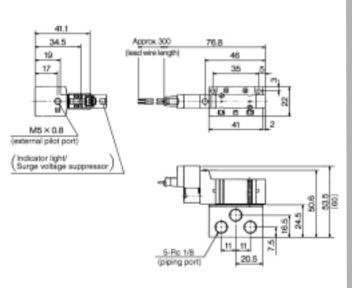


With interface regulator





L type plug connector (L): SY3140(R)-□L□□-01

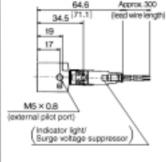


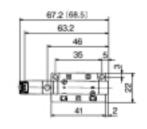
GrommetSS5Y31, #1 + #4 L type plug connector SS5Y31, #1 + #4 + #10

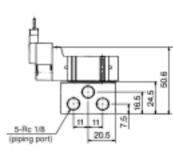
M type plug connector SS5Y31, #1 + #4 + #13

CAD

M type plug connector (M): SY3140(R)-□M□□-01





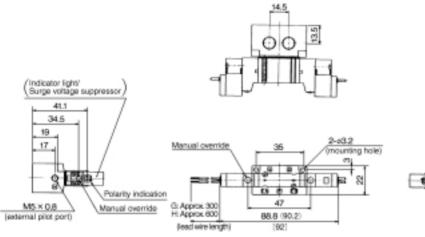


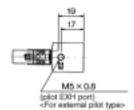
SMC

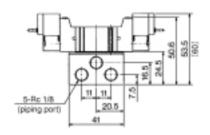


2 position double Grommet (G), (H): SY3240(R)-□G□-01

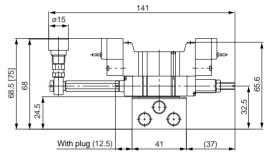
Scale: 35%



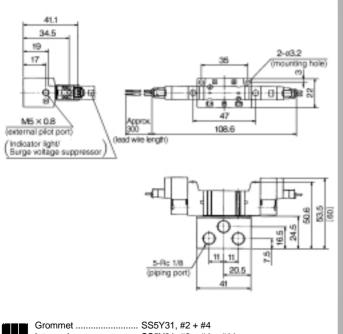




With interface regulator



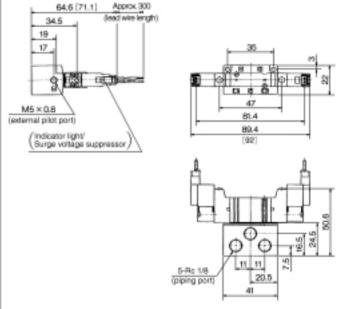
L type plug connector (L): SY3240(R)-□L□□-01



L type plug connector SS5Y31, #2 + #4 + #11

M type plug connector SS5Y31, #2 + #4 + #14

M type plug connector (M): SY3240(R)-□M□□-01



CAD

Single valve

e Type

e Type 1

Single Ty valve

pe Type 1 42

43 141P

e Type .

/pe Type 45-%

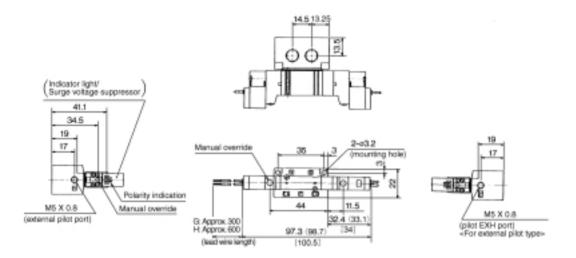
3 port Air valve operated

Air Order made

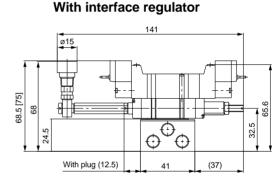
ets Precautions

3 position closed center/exhaust center/pressure center Grommet (G), (H): SY3 $\frac{3}{4}$ 40(R)- $\Box_H^G\Box\Box$ -01

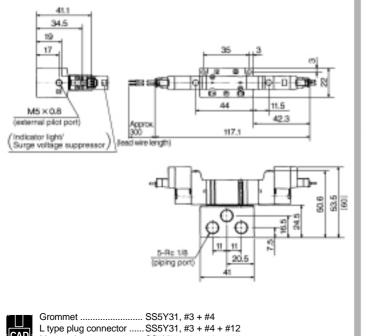
Scale: 35%



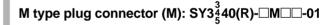
5-Ro 1.8 (piping port) 41



L type plug connector (L): SY3540(R)-□L□□-01

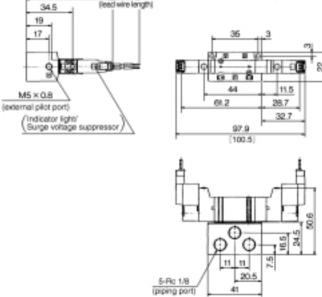


M type plug connector SS5Y31, #3 + #4 + #15



Арриск 300

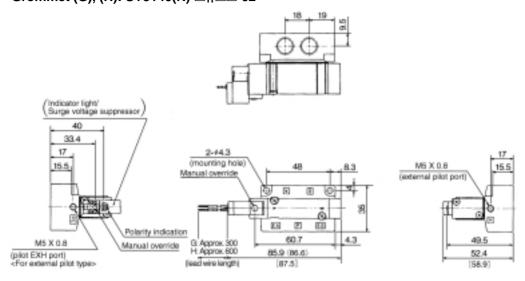
64.6 [71.1]

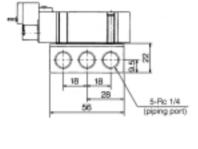




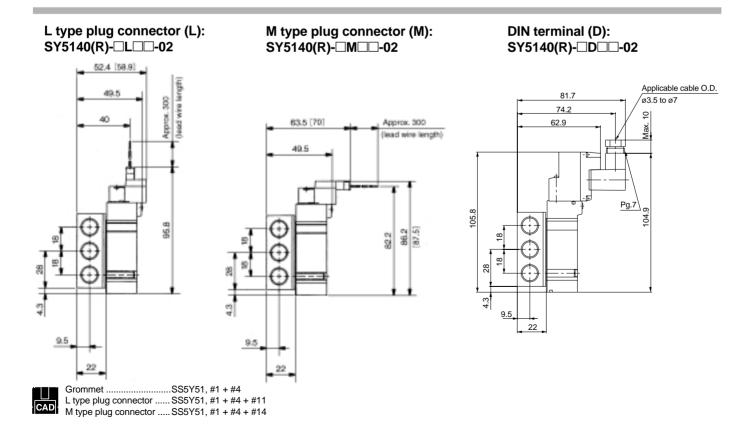
2 position single Grommet (G), (H): SY5140(R)-□^GH□□-02

Scale: 35%





With interface regulator 157 157 With plug (16.5) 56 (59)



Applicable cable O.D.

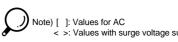
ø3.5 to ø7

Max.

Order made

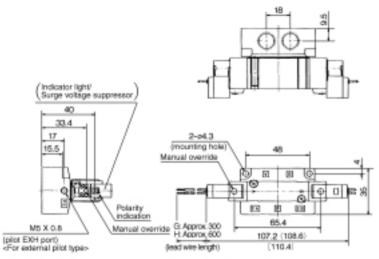
Precautions

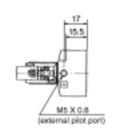


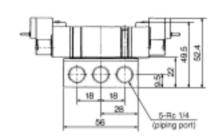


2 position double Grommet (G), (H): SY5240(R)-□^G_H□□-02

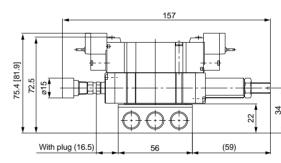
Scale: 35%







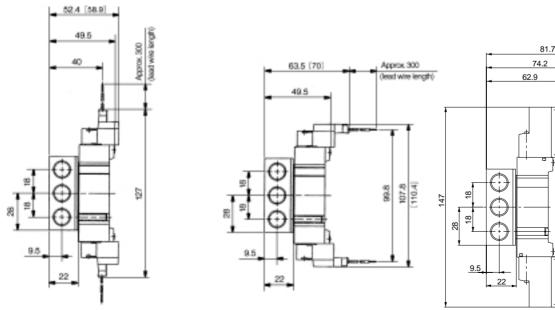
With interface regulator



L type plug connector (L): SY5240(R)-□L□□-02

M type plug connector (M): SY5240(R)-□M□□-02

DIN terminal (D): SY5240(R)-□D□□-02



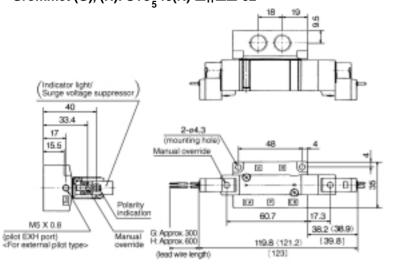
SS5Y51, #2 + #4 Grommet L type plug connector SS5Y51, #2 + #4 + #12 CAD M type plug connector SS5Y51, #2 + #4 + #15

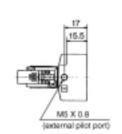


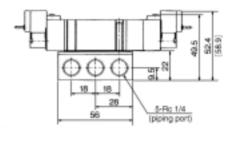
3 position closed center/exhaust center/pressure center Grommet (G), (H): SY5 $^3_540(R)$ - $\Box^G_H\Box\Box$ -02

>: values with surge voltage suppresso

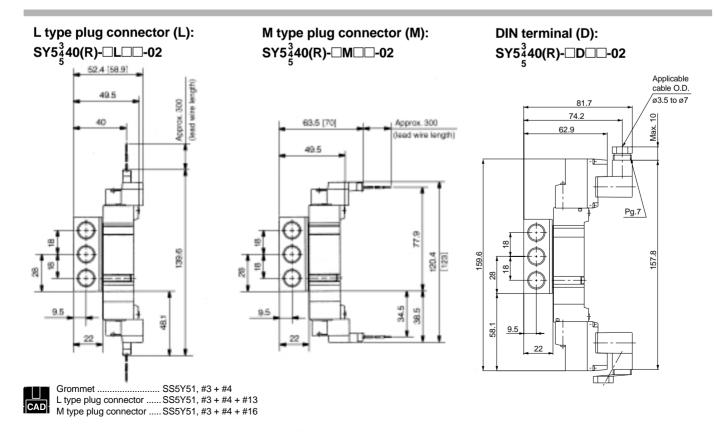
Scale: 35%





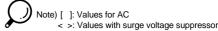


With plug (16.5) 56 (59)



Single valve

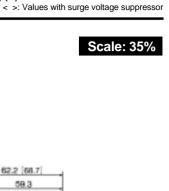




21.5

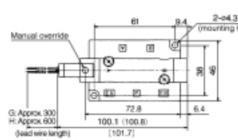
M5 X 0.8

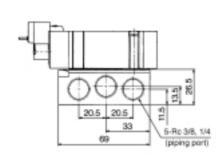
emal pilot port)



2 position single Grommet (G), (H): SY7140(R)- $\Box_{H}^{G}\Box\Box$ - $_{03}^{02}$

> (Indicator light/ Surge voltage suppressor) 43.2 21.5 Polarity indication Manual override M5×0.8 (pilot EXH port) <For external pilot types

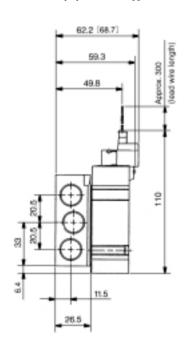


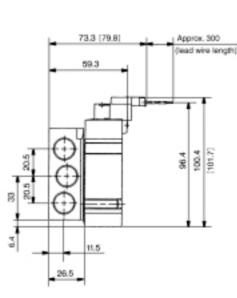


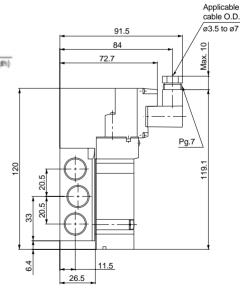
L type plug connector (L): SY7140(R)-□L□□-02

M type plug connector (M): SY7140(R)- \square M \square - $^{02}_{03}$

DIN terminal (D): SY7140(R)-□D□□-02





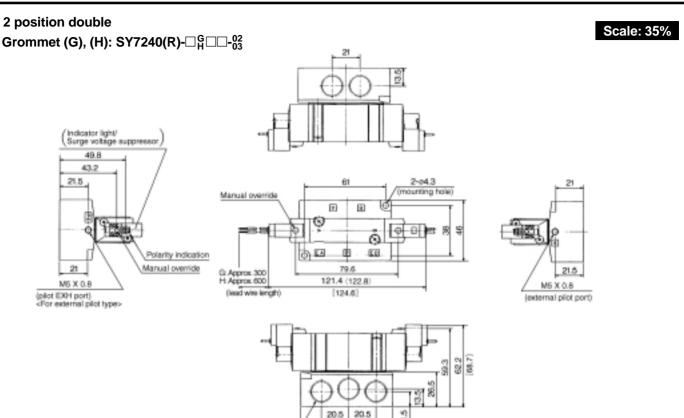


..SS5Y71, #1 Grommet L type plug connector SS5Y71, #1 + #4 + #10 M type plug connector SS5Y71, #1 + #4 + #13 operated

Order made

Precautions





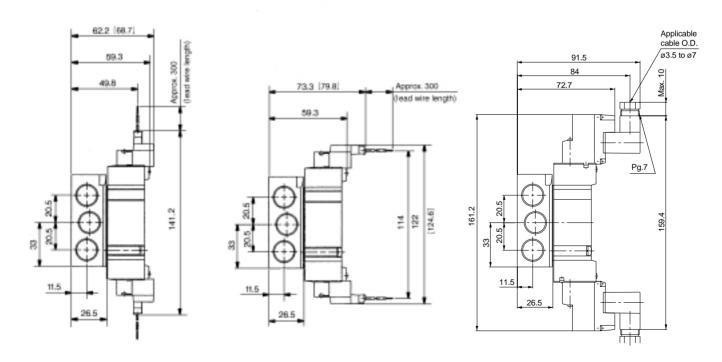
33

L type plug connector (L): SY7240(R)- \Box L \Box - $_{03}^{02}$

M type plug connector (M): SY7240(R)- \square M \square - $^{02}_{03}$

5-Rc 3/8, 1/4 (piping port)

DIN terminal (D): SY7240(R)-□D□□-02







Applicable cable O.D.

ø3.5 to ø7

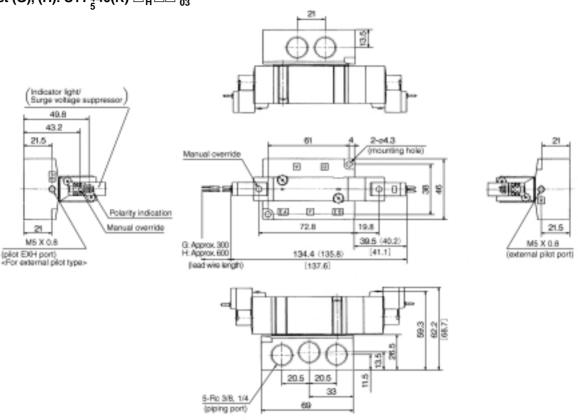
Air Order operated made

r Manifo spec.

Precautions

3 position closed center/exhaust center/pressure center Grommet (G), (H): SY7 $_{4}^{3}$ 40(R)- $\Box_{H}^{G}\Box\Box_{03}^{-02}$

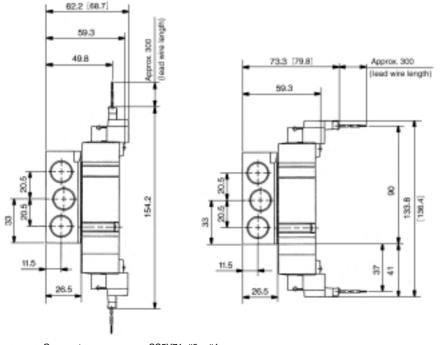
Scale: 35%

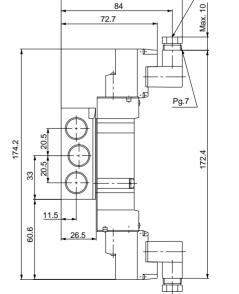


L type plug connector (L): SY7 $\frac{3}{4}$ 40(R)- \Box L \Box - $\frac{02}{03}$

M type plug connector (M): SY7 $\frac{3}{4}$ 40(R)- \square M \square - $\frac{02}{03}$

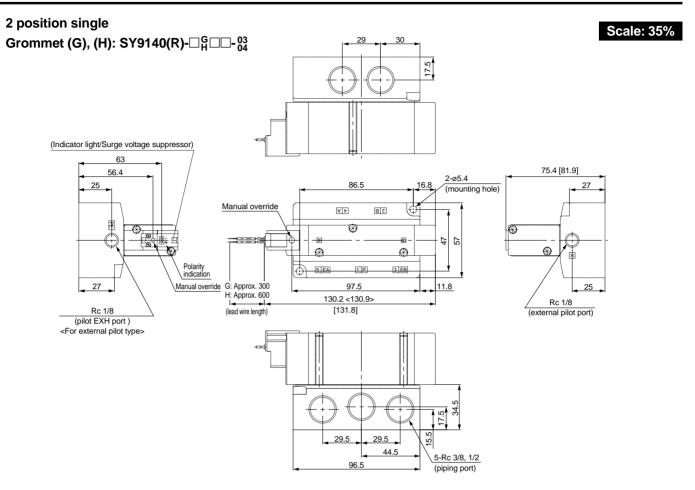
DIN terminal (D): SY7 $\frac{3}{4}$ 40(R)- \square D \square - $\frac{02}{63}$

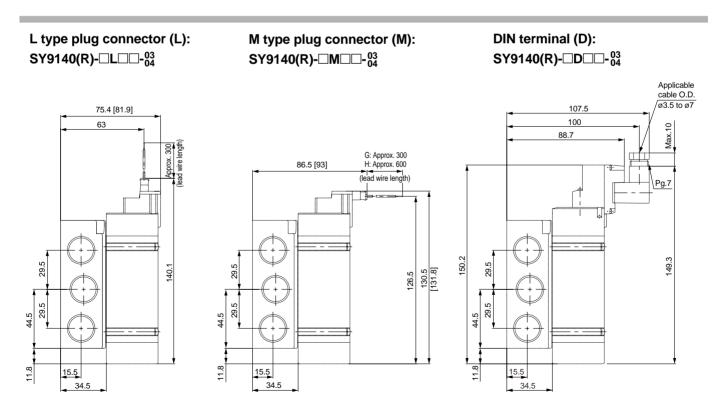




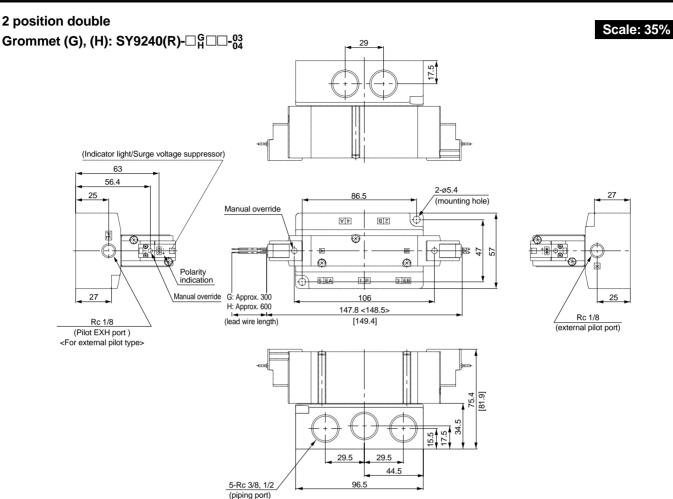
91.5







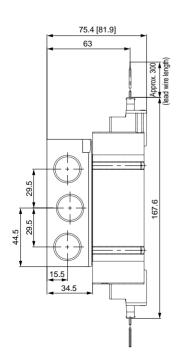
Single valve

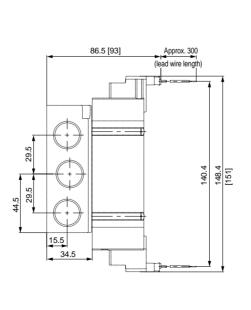


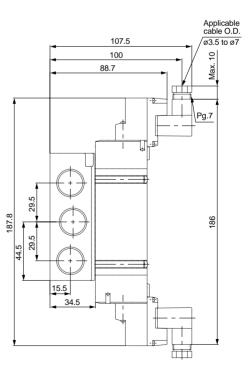
L type plug connector (L): SY9240(R)-□L□□-03

M type plug connector (M): SY9240(R)-□M□□-03

DIN terminal (D): SY9240(R)-□D□□-03



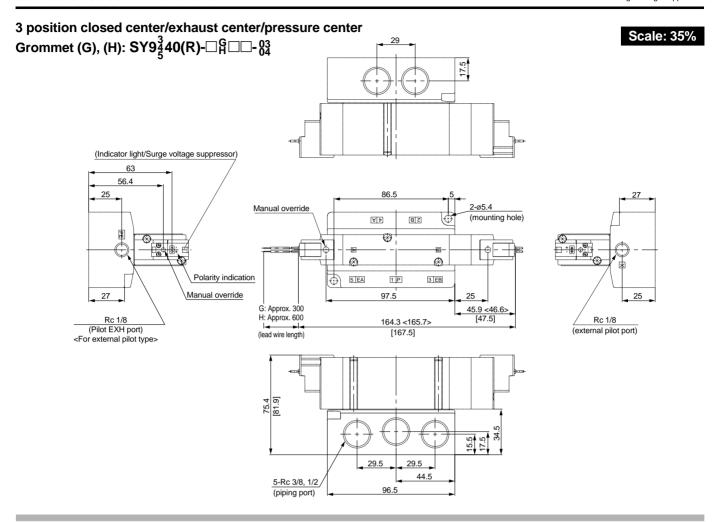


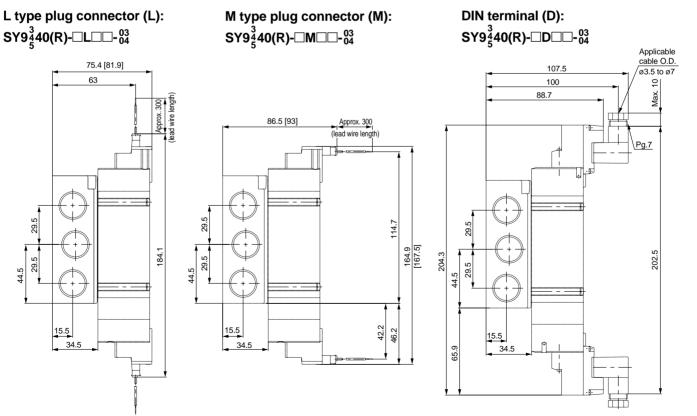


operated

Order made

Precautions



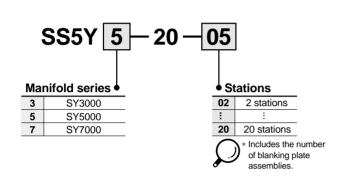




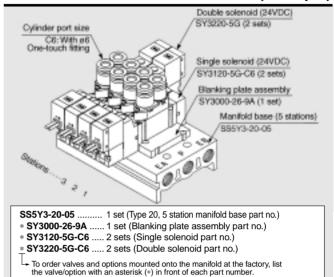


SY3000/5000/7000 Body Ported Type Manifold Bar Stock/Individual Wiring

How to Order Manifolds

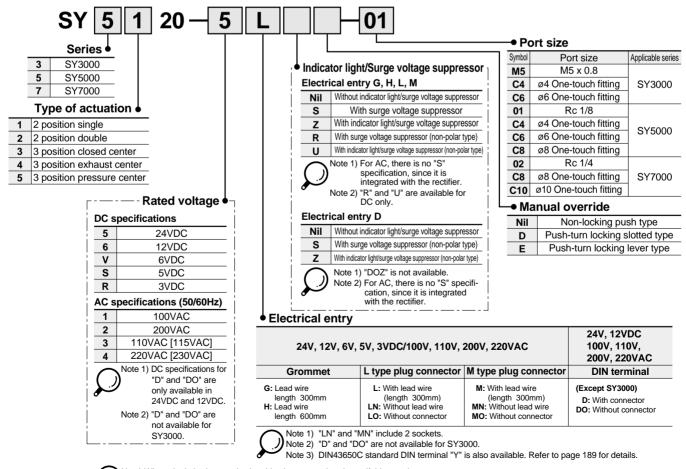


How to Order Manifold Assemblies (Example)



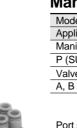
Add the valve and option part numbers in order starting from the first station as shown above. When entry of part numbers becomes complicated, indicate on a manifold specification sheet. (Manifold Specification Sheet on pages 191 to 193)

How to Order Valves



Note) When single body ported solenoid valves are ordered, manifold mounting bolts and gaskets are not included. Order them separately if necessary. (Refer to page 56 for details.)





Manifold specifications

Model		SS5Y3-20	SS5Y5-20	SS5Y7-20				
Applicable va	alve	SY3□20	SY5□20	SY7□20				
Manifold type	Э		Single base type/B moun	t				
P (SUP)/R (E	EXH) method		Common SUP/EXH					
Valve station	ıs	2 to 20 stations Note 1)						
A, B port loca	ation	Valve						
	P, EA, EB port	Rc 1/8	Rc 1/4					
Port size	A, B port	M5 x 0.8 C4 (ø4 One-touch fitting) C6 (ø6 One-touch fitting)	Rc 1/8 C4 (ø4 One-touch fitting) C6 (ø6 One-touch fitting) C8 (ø8 One-touch fitting)	Rc 1/4 C8 (ø8 One-touch fitting) C10 (ø10 One-touch fitting)				
Valve effective area Note 2) mm² (Cv factor)		P to A/B 3.6 (0.2) C6: A/B to EA/EB 4.14 (0.23)	P to A/B 9.18 (0.51) C8: A/B to EA/EB 9.9 (0.55)	P to A/B 15.84 (0.88) C10: A/B to EA/EB 14.94 (0.83)				
Manifold base n: Number o	e weight W (g) f stations	W = 13n + 35	W = 36n + 64	W = 43n + 64				

Note 1) For 10 stations or more (5 stations or more in case of SS5Y7), supply pressure to P port on both sides and exhaust from EA and EB ports on both sides.

Note 2) Value when manifold base (5 stations) is mounted, with single action 2 position type.

Note 3) Refer to page 56 for manifold options.

operated





SY3000: SS5Y3-20- Stations

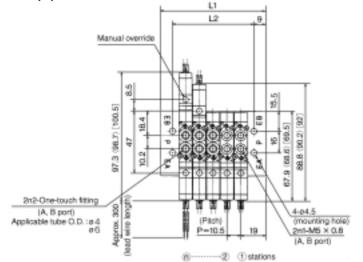


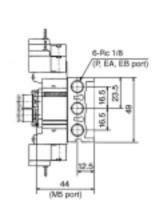


) []: values for AC< >: Values with surge voltage suppressor

Grommet (G)

Scale: 35%

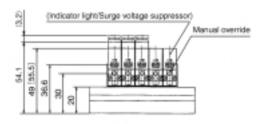


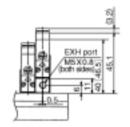


Dimensions when mounting individual EXH spacer

Dimensions when mounting individual SUP spacer

(SUP port is at the end plate side of the single solenoid.)

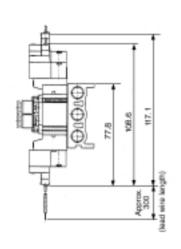


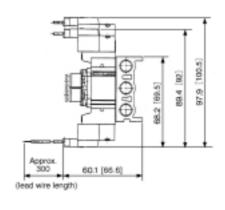




L type plug connector (L)

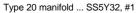
M type plug connector (M)





Stations n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	48.5	59	69.5	80	90.5	101	111.5	122	132.5	143	153.5	164	174.5	185	195.5	206	216.5	227	237.5
L2	30.5	41	51.5	62	72.5	83	93.5	104	114.5	125	135.5	146	156.5	167	177.5	188	198.5	209	219.5



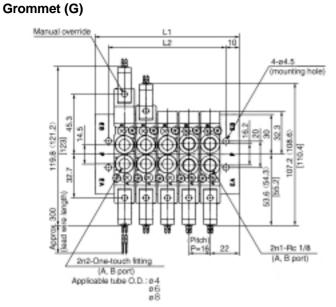


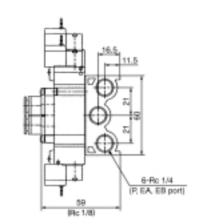


operated

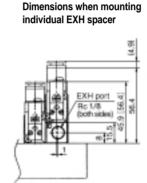
Order made

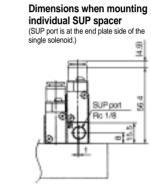
Precautions





- 0 (f) stations (Indicator light/Surge voltage suppressor) Manual override 58.4



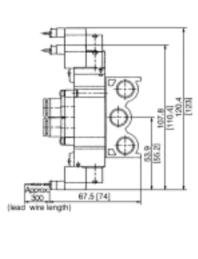


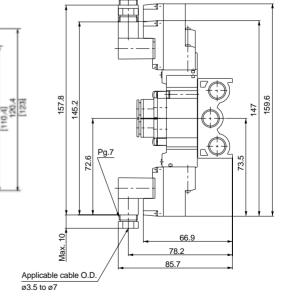
DIN terminal (D)

L type plug connector (L)

M type plug connector (M)

(A, B part)





Stations n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	60	76	92	108	124	140	156	172	188	204	220	236	252	268	284	300	316	332	348
L2	40	56	72	88	104	120	136	152	168	184	200	216	232	248	264	280	296	312	328

Type 20 manifold ... SS5Y52, #1

CAD

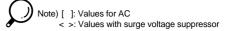
Approx. 300

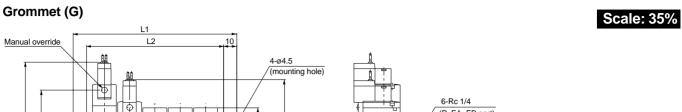


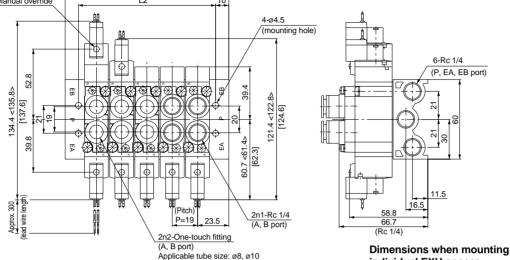


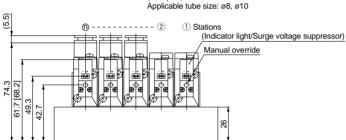
SY7000: SS5Y7-20- Stations

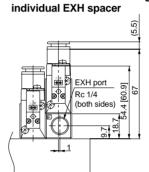






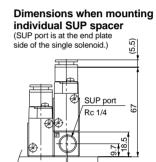






Applicable cable O.D.

ø3.5 to ø7



72.2

83.5

91

L type plug connector (L) M type plug connector (M) **DIN terminal (D) -**141.2 172.4 161 7.67 Approx. 300 72.8 [79.3] Approx. 300 (lead wire length) (lead wire length)

Stations n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	66	85	104	123	142	161	180	199	218	237	256	275	294	313	332	351	370	389	408
L2	46	65	84	103	122	141	160	179	198	217	236	255	274	293	312	331	350	369	388



Type 20 manifold ... SS5Y72, #1

49.3

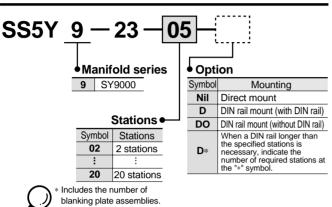
61.7 [68.2]



Type **23**

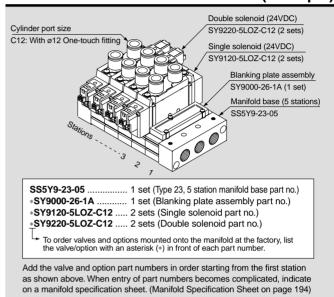
SY9000 Body Ported Type Manifold Stacking Type/Individual Wiring

How to Order Manifolds

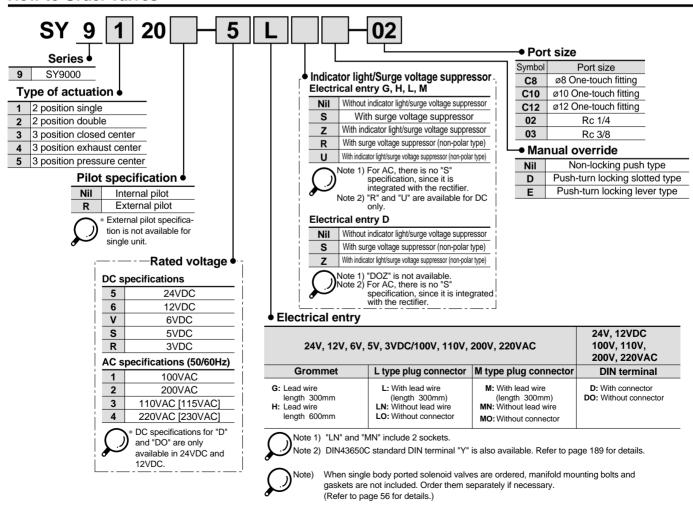


^{*} Type 23 manifolds for SY9000 have common internal and external pilots.

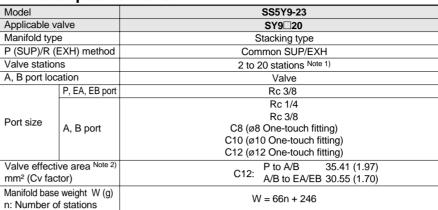
How to Order Manifold Assemblies (Example)



How to Order Valves









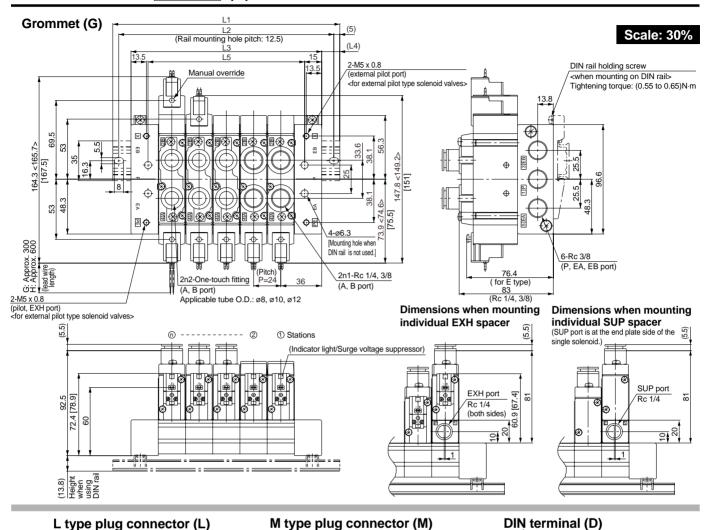
Note 1) For 10 stations or more, supply pressure to P port on both sides and exhaust from EA and EB ports on

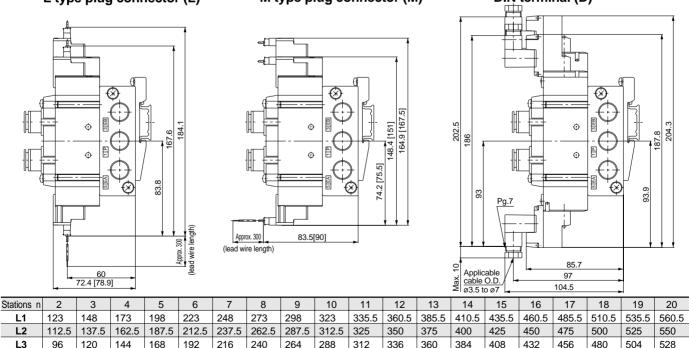
Note 2) Value when manifold base (5 stations) is mounted, with single action of 2 position type.

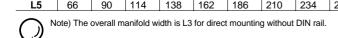
Note 3) Refer to page 56 for manifold options.

operated









14.5

15.5

16.5



17.5

12.5

13.5

14.5

15.5

16.5

L4

L5

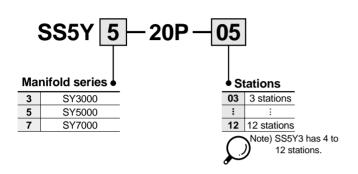
13.5



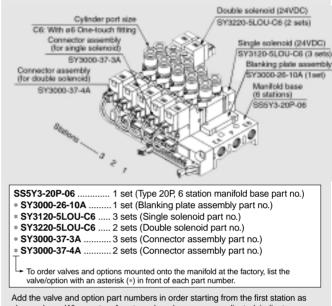


SY3000/5000/7000 Body Ported Type Manifold Bar Stock/Flat Ribbon Cable

How to Order Manifolds

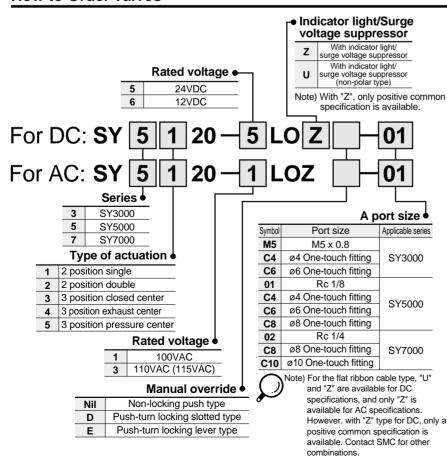


How to Order Manifold Assemblies (Example)



Add the valve and option part numbers in order starting from the first station as shown above. When entry of part numbers becomes complicated, indicate on a manifold specification sheet. (Manifold Specification Sheet on pages 196 to 198)

How to Order Valves



How to Order Connector Assemblies

For 12, 24VDC

Specification	SY3000	SY5000/7000
Single solenoid	SY3000-37-3A	SY5000-37-3A
Double solenoid/ 3 position	SY3000-37-4A	SY5000-37-4A
Single solenoid with spacer assembly	SY5000-37-3A	SY5000-37-5A
Double solenoid/3 position with spacer assembly	SY3000-37-6A	SY5000-37-6A

For 100VAC

	•	
Specification	SY3000	SY5000/7000
Single solenoid	SY3000-37-32A	SY5000-37-15A
Double solenoid/ 3 position	SY3000-37-33A	SY5000-37-16A
Single solenoid with spacer assembly		
Double solenoid/3 position with spacer assembly	SY3000-37-34A	SY5000-37-18A

For 110VAC (115VAC)

Specification	SY3000	SY5000/7000
Single solenoid	SY3000-37-35A	SY5000-37-19A
Double solenoid/ 3 position	SY3000-37-36A	SY5000-37-20A
Single solenoid with spacer assembly		
Double solenoid/3 position with spacer assembly	SY3000-37-37A	SY5000-37-22A



Note) When single body ported solenoid valves are ordered, manifold mounting bolts and gaskets are not included. Order them separately if necessary. (Refer to page 56 for details.)



External wiring is bundled for one-touch wiring

Clean appearance

With the flat ribbon cable type, each valve is wired to the printed circuit board of the manifold base to allow the external wiring to be bundled with a 26 pin MIL connector for one-touch wiring.



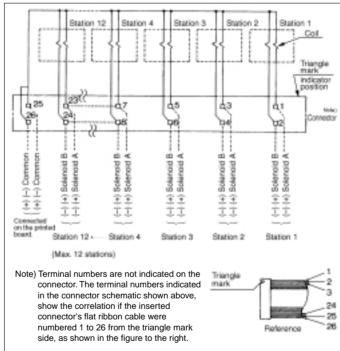
Manifold Specifications

Model		SS5Y3-20P	SS5Y5-20P	SS5Y7-20P			
Applicable	valve	SY3□20	SY5□20	SY7□20			
Manifold ty	/pe		Single base type/B moun	t			
P (SUP)/R	(EXH) method		Common SUP/EXH				
Valve stati	ons	4 to 12 stations Note 1)	3 to 12 sta	tions Note 1)			
A, B port lo	ocation		Valve				
	P, EA, EB port	Rc 1/8 Rc 1/4		Rc 1/4			
Port size	A, B port	M5 x 0.8 C4 (ø4 One-touch fitting) C6 (ø6 One-touch fitting)	Rc 1/8 C4 (ø4 One-touch fitting) C6 (ø6 One-touch fitting) C8 (ø8 One-touch fitting)	Rc 1/4 C8 (ø8 One-touch fitting) C10 (ø10 One-touch fitting)			
Valve effection mm² (Cv fa	ctive area Note 2) actor)	P to A/B 3.6 (0.2) C6: A/B to EA/EB 4.14 (0.23)	P to A/B 15.84 (0.88) C10: A/B to EA/EB 14.94 (0.83)				
Manifold base weight W (g) n: Number of stations		W = 19n + 45	W = 43n + 77	W = 51n + 81			
Applicable cable conn	flat ribbon nector	Flat ribbon cable connector, Socket: 26 pin MIL, With strain relief, MIL-C-83503 conformity					
Internal wi	ring	Common positive and negative COM (Only positive COM for "Z" type)					
Rated volta	age	12, 24VDC/100, 110VAC					



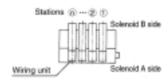
- Note 1) For 10 stations or more (5 stations or more in case of SS5Y7), supply pressure to P port on both sides and exhaust from EA and EB ports on both sides.
- Note 2) Value when manifold base (5 stations) is mounted, with single action 2 position type.
- Note 3) The withstand voltage specification for the wiring unit is equivalent to JIS C0704, Class 1.
- Note 4) Refer to page 56 for manifold options.

Manifold Internal Wiring (non-polar type)





- Note 1) For 10 stations or more, wire both of the common poles.
- Note 2) For single solenoids, connect to the solenoid A side.
- Note 3) The maximum number of stations is 12. Contact SMC if more than 12 stations are required



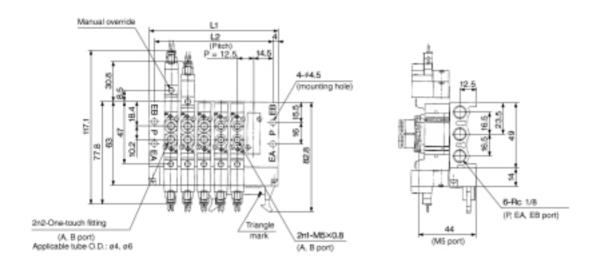


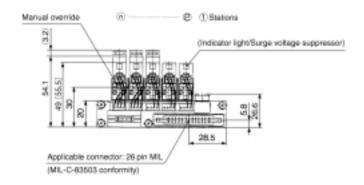
Non-polar type (U) valves with DC electrical connection can be used for both negative and positive COM. However, always use positive COM with the "Z" type, since valves will not be actuated when negative COM is used.



48





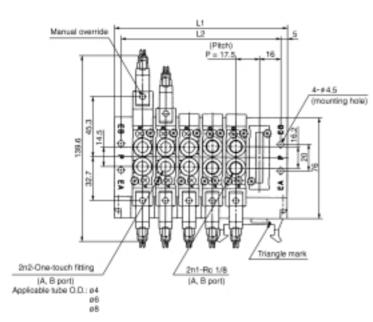


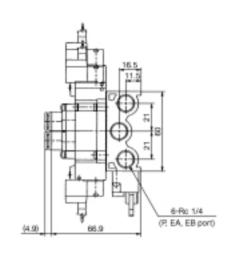
Stations n	4	5	6	7	8	9	10	11	12
L1	72.5	85	97.5	110	122.5	135	147.5	160	172.5
L2	64.5	77	89.5	102	114.5	127	139.5	152	164.5

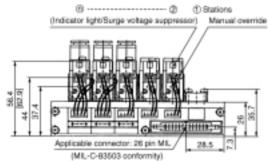


Type 20P manifold SS5Y32, #2









Stations n	3	4	5	6	7	8	9	10	11	12
L1	77	94.5	112	129.5	147	164.5	182	199.5	217	234.5
L2	67	84.5	102	119.5	137	154.5	172	189.5	207	224.5

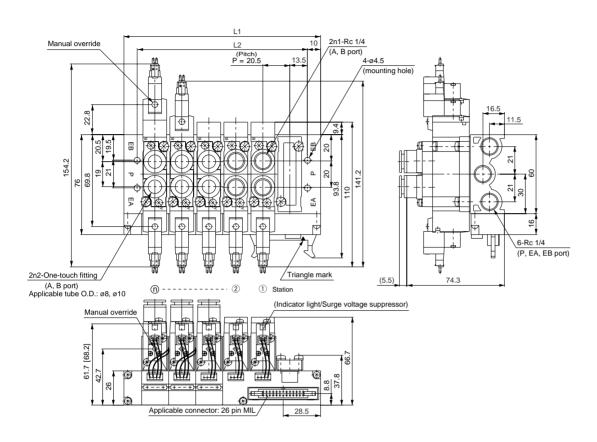


Type 20P manifold SS5Y52, #2

Order made 50

operated





Stations n	3	4	5	6	7	8	9	10	11	12
L1	88	108.5	129	149.5	170	190.5	211	231.5	252	272.5
L2	68	88.5	109	129.5	150	170.5	191	211.5	232	252.5



Type 20P manifold SS5Y72, #2

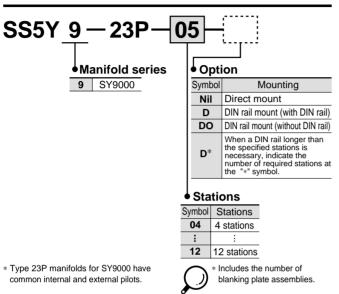




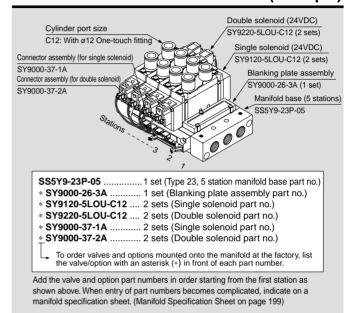


SY9000 Body Ported Type Manifold Stacking Type/Flat Ribbon Cable

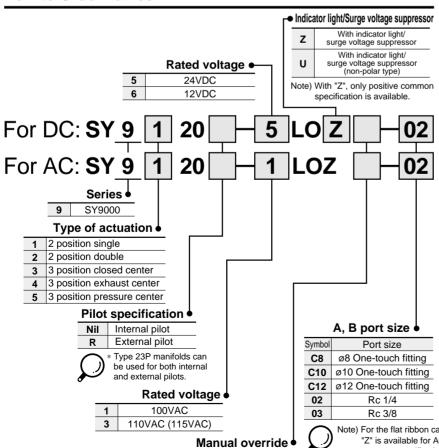
How to Order Manifolds



How to Order Manifold Assemblies (Example)



How to Order Valves



Non-locking push type

Push-turn locking slotted type

Push-turn locking lever type

How to Order Connector Assemblies

For 12, 24VDC	
Specification	SY9000
Single solenoid	SY9000-37-1A
Double solenoid/ 3 position	SY9000-37-2A
Single solenoid with spacer assembly	SY9000-37-3A
Double solenoid/3 position with spacer assembly	SY9000-37-4A

For 100VAC

	Specification	SY9000
Single solenoid Double solenoid/ 3 position		SY9000-37-1B
		SY9000-37-2B
	Single solenoid with spacer assembly	SY9000-37-3B
	Double solenoid/3 position with spacer assembly	SY9000-37-4B

For 110VAC (115VAC)

Specification	SY9000
Single solenoid	SY9000-37-1C
Double solenoid/ 3 position	SY9000-37-2C
Single solenoid with spacer assembly	SY9000-37-3C
Double solenoid/3 position with spacer assembly	SY9000-37-4C

Note) For the flat ribbon cable type, "U" and "Z" are available for DC specifications, and only
"Z" is available for AC specifications. However, with "Z" type for DC, only a positive
common specification is available. Contact SMC for other combinations.

Note) When single body ported solenoid valves are ordered, manifold mounting bolts and gaskets are not included. Order them separately if necessary.

(Refer to page 56 for details.)



Nil

D

Ε

External wiring is bundled for one-touch wiring

Clean appearance

With the flat ribbon cable type, each valve is wired to the printed circuit board of the manifold base to allow the external wiring to be bundled with a 26 pin MIL connector for one-touch wiring.



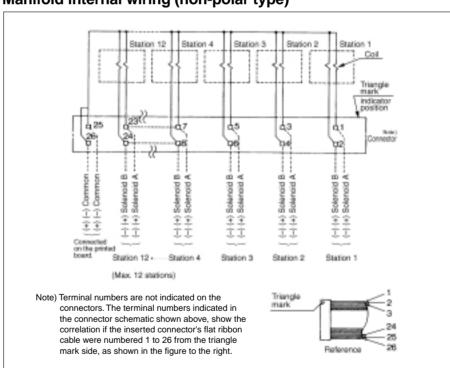
Manifold specifications

Model		SS5Y9-23P		
Applicable valve		SY9□20		
Manifold typ	ре	Stacking type		
P (SUP)/R	(EXH) method	Common SUP/EXH		
Valve static	ons	4 to 12 stations Note 1)		
A, B port lo	cation	Valve		
-	P, EA, EB port	Rc 3/8		
		Rc 1/4		
Dowt a:		Rc 3/8		
Port size	A, B port	C8 (ø8 One-touch fitting)		
		C10 (ø10 One-touch fitting)		
		C12 (ø12 One-touch fitting)		
Valve effec	tive area Note 2)	C: P to A/B 35.41 (1.97) C: A/B to EA/EB 30.55 (1.70)		
mm² (Cv factor)		A/B to EA/EB 30.55 (1.70)		
Manifold bas	e weight W (g)	W = 73n + 259		
n: Number of stations Applicable flat ribbon		W = 73N + 259		
		Flat ribbon cable connector,		
cable connector		Socket: 26 pin MIL, With strain relief, MIL-C-83503 conformity		
Internal wiri	ing	Common positive and negative COM (Only positive COM for "Z" type)		
Rated volta	ge	12, 24VDC/100, 110VAC		



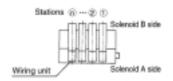
- Note 1) For 10 stations or more, supply pressure to P port on both sides and exhaust from EA and EB ports on both sides.
- Note 2) Value when manifold base (5 stations) is mounted, with single action 2 position type.
- Note 3) The withstand voltage specification for the wiring unit is equivalent to JIS C0704, class 1.
- Note 4) Refer to page 56 for manifold options.

Manifold internal wiring (non-polar type)





- Note 1) For 10 stations or more, wire both of the common poles.
- Note 2) For single solenoids, connect to the solenoid A side.
- Note 3) The maximum number of stations is 12. Contact SMC if more than 12 stations are required.





Non-polar type (U) valves with DC electrical connection can be used for both negative and positive COM. However, always use positive COM with the "Z" type, since valves will not be actuated when negative COM is used.

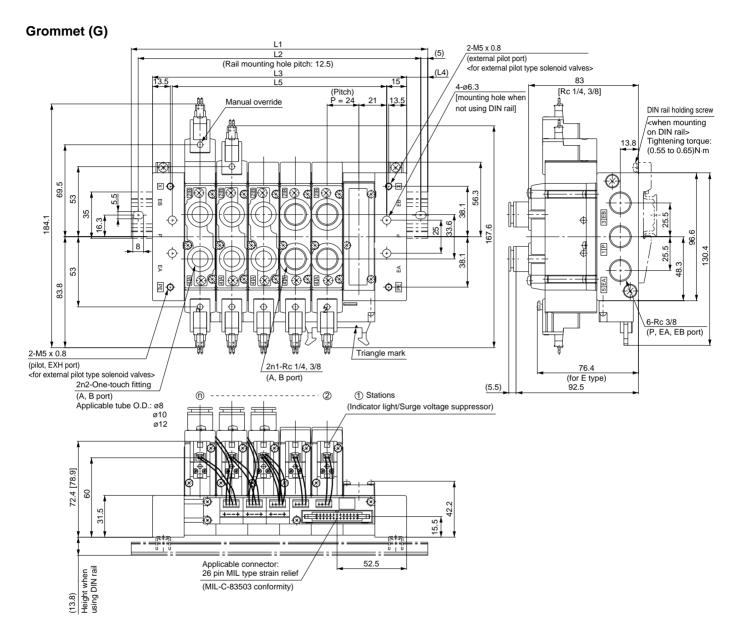
Precautions

operated

Order made



Scale: 30%



Stations n	4	5	6	7	8	9	10	11	12
L1	173	198	223	248	273	298	323	335.5	360.5
L2	162.5	187.5	212.5	237.5	262.5	287.5	312.5	325	350
L3	144	168	192	216	240	264	288	312	336
L4	14.5	15	15.5	16	16.5	17	17.5	12	12.5
L5	114	138	162	186	210	234	258	282	306



Note) The overall manifold width is L3 for direct mounting without DIN rail.



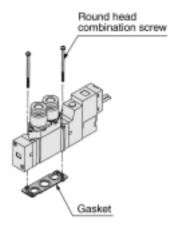
Manifold Options

■ For types 20, 23 Blanking plate assembly



Series	Assembly part no.
SY3000	SY3000-26-9A
SY5000	SY5000-26-18A
SY7000	SY7000-26-20A
SY9000	SY9000-26-1A

■ Bolt, Gasket part numbers



Series	Round head combination screw	Gasket	
SY3000	SY3000-23-4 (M2 x 21)	SY3000-11-24	
SY5000	M3 x 26 (Flat nickel plated)	SY5000-11-10	
SY7000	M4 x 31 (Flat nickel plated)	SY7000-11-9	
SY9000	SY9000-18-2 (M3 x 42)	SY9000-11-1	

⚠ Caution

Mounting screw tightening torque

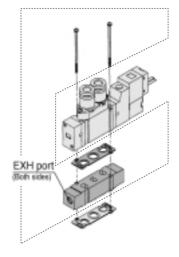
M2: 0.15N·m M3: 0.6N·m M4: 1.4N·m

■ For types 20P, 23P Blanking plate assembly



Series	Assembly part no.
SY3000	SY3000-26-10A
SY5000	SY5000-26-19A
SY7000	SY7000-26-21A
SY9000	SY9000-26-3A

■ Individual EXH spacer assembly

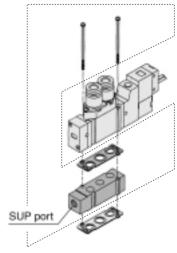


Series	Assembly part no.	Port size
SY3000	SY3000-39-20A	M5 x 0.8
SY5000	SY5000-39-1A	Rc 1/8
SY7000	SY7000-39-1A	Rc 1/4
SY9000	SY9000-39-1A	Rc 1/4



Note) In case of types 20P and 23P, to protect from drainage, arrange the piping on the EA port (wiring unit side) so that the wiring unit will not be exposed to the direct exhaust from the

■ Individual SUP spacer assembly



Series	Assembly part no.	Port size
SY3000	SY3000-38-20A	M5 x 0.8
SY5000	SY5000-38-1A	Rc 1/8
SY7000	SY7000-38-1A	Rc 1/4
SY9000	SY9000-38-1A	Rc 1/4

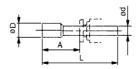


Note 1) The SUP port can be on the lead wire side or end plate side for SY3000/5000/7000. (The SUP port direction is as shown above when shipped already assembled.)

Note 2) For SY9000, the SUP port is only available on the end plate side.

■ Plug (white)

Insert into unused cylinder ports and SUP/EXH ports. The minimum order quantity is 10 pieces. Order in multiples of 10.



Dimensions

Applicable fitting size ød	Model	А	L	D
4	KQ2P-04	16	32	6
6	KQ2P-06	18	35	8
8	KQ2P-08	20.5	39	10
10	KQ2P-10	22	43	12
12	KQ2P-12	24	45.5	14

SMC

56



Manifold Options

■ SUP block disc (SY9000)

By installing a SUP block disc in the pressure supply passage of the manifold valve, two or more different pressures, high or low, can be supplied to one manifold.



Series	Part no.
SY9000	SY9000-61-2A

■ EXH block disc (SY9000)

By installing an EXH block disc in the exhaust passage of the manifold valve, the passage can be divided so that the exhaust from one valve will not affect another valve. (Two block discs are required to block both EXH ports.)



Series	Part no.
SY9000	SY9000-61-2A

■ Labels for block disc (SY9000)

Labels are applied to valves with SUP and EXH block discs for external confirmation of blocked passages. (3 labels per package)

VZ3000-123-1A

SUP block disc label

EXH block disc label

SUP/EXH block disc label









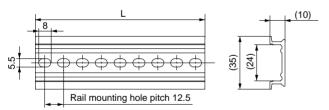
* When block discs are ordered with manifolds using a manifold specification sheet, block disc labels are already applied if the block discs are installed at the time of shipment.

■ SY9000 DIN rail dimensions and weights

VZ1000 - 11 - 4 - □

◆ Refer to the table below for dimension L.

 \ast Specify a number inside \square from the DIN rail dimensions table below.



No.	0	1	2	3	4	5	6	7	8	9
Dimension L	98	110.5	123	135.5	148	160.5	173	185.5	198	210.5
Weight (g)	24.8	28	31.1	34.3	37.4	40.6	43.8	46.9	50.1	53.3
No.	10	11	12	13	14	15	16	17	18	19
Dimension L	223	235.5	248	260.5	273	285.5	298	310.5	323	335.5
Weight (g)	56.4	59.6	62.7	65.9	69.1	72.2	75.4	78.6	81.7	84.9
No.	20	21	22	23	24	25	26	27	28	29
Dimension L	348	360.5	373	385.5	398	410.5	423	435.5	448	460.5
Weight (g)	88	91.2	94.4	97.5	100.7	103.9	107	110.2	113.3	116.5

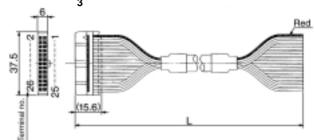


Note) Refer to page 236 regarding DIN rails.

Refer to dimension L1 on page 55 for lengths that correspond to the number of manifold stations.

■ Cable assembly (20P, 23P)

AXT100-FC26-2



Flat ribbon cable connector assembly

Cable length (L)	Assembly part no.	Note
1.5m	AXT100-FC26-1	
3m	AXT100-FC26-2	26 core cable x 28AWG
5m	AXT100-FC26-3	



* For other commercial connectors, use a 26 pin type with strain relief conforming with MIL-C-83503.

Connector manufacturer examples

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

Manifold Base Expansion (for SY9000 Only) Stations can be added in a desired location.

For type 23 manifold base expansion, tension bolts are required as well as a manifold block assembly. Tension bolts vary in length depending on the number of stations; therefore, order the appropriate tension bolts for the expanded (or reduced) manifold base. (Changes in the number of stations for type 23P manifolds require wiring units and lead wire assemblies for any additional stations.)

Loosen the two tension bolts 5 that connect the manifold base and remove them. 1

(In case of a DIN rail type, also loosen the DIN rail holding screw on either the U side or D side.)

- Separate the blocks at the location where a new station is to be added.
- Mount the manifold block assembly to be added.
- 4 Hold the blocks so that there is no space between them, insert the appropriate tensions bolts into the expanded manifold base and tighten them.

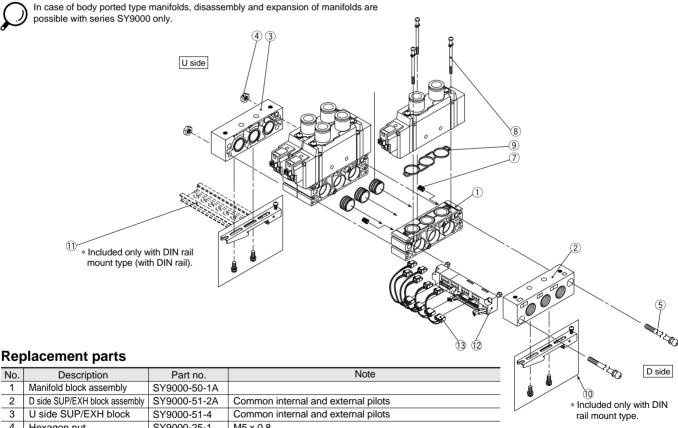
△ Caution (Tightening torque: 2.9N m)

(With the DIN rail type, be sure to tighten the tension bolts first, and then tighten the DIN rail holding screws. Tightening torque: 1.4N·m)

/!\ Caution

- 1. Be sure to turn off the power supply and air supply before disassembling. Furthermore, confirm that the air is completely exhausted before beginning disassembly, since residual air may be present inside the actuator, piping, and manifold.
- 2. When disassembly and assembly are performed, insufficient tightening of the tension bolts will cause air leakage.
- 3. Type 23 manifold can be changed into a type 23P manifold by adding a wiring unit assembly.

23 **Exploded View of Body Ported Type Manifold 23P Common**



SMC

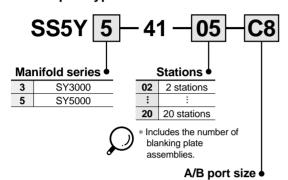
Description	Part no.	Note						
		Note						
Manifold block assembly	SY9000-50-1A							
D side SUP/EXH block assembly	SY9000-51-2A	Common internal and external pilots						
U side SUP/EXH block	SY9000-51-4	Common internal and external pilots						
Hexagon nut	SY9000-25-1	M5 x 0.8						
Tension bolt	SY9000-23-□	Specify the number of stations inside \square at the end of the part number.						
Bushing assembly	SY9000-61-1A	Included with the manifold block assembly and D side SUP/EXH block assembly						
Bushing assembly	SY9000-61-3A	Included with the manifold block assembly and D side SUP/EXH block assembly						
Round head combination screw	SY9000-18-2	Included with the manifold block assembly.						
Manifold gasket	SY9000-11-1	Included with the manifold block assembly.						
Clamp bracket sub-assembly	SY9000-29-1A							
DIN rail	VZ1000-11-4-□	Refer to page 57.						
Wiring unit assembly	SY9000-36-□A	Specify the number of stations (4 to 12) inside \square in the part number.						
Connector assembly	SY9000-37-□□	Refer to page 53.						
1 1 1	U side SUP/EXH block Hexagon nut Tension bolt Bushing assembly Bushing assembly Round head combination screw Manifold gasket Clamp bracket sub-assembly DIN rail Wiring unit assembly	U side SUP/EXH block SY9000-51-4						



SY3000/5000/7000 Base Mounted Type Manifold Bar Stock/Individual Wiring

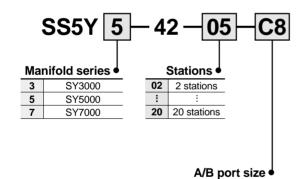
How to Order Manifolds

Type 41/Compact type



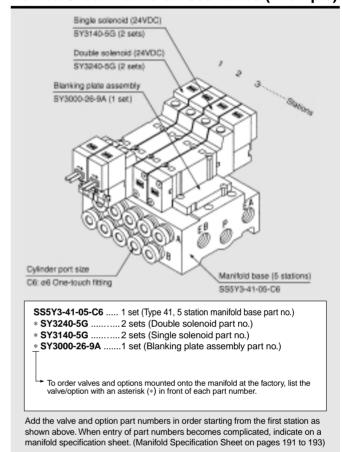
Symbol	Port size	Applicable series				
M5	M5 x 0.8					
C4	ø4 One-touch fitting	SY3000				
C6	ø6 One-touch fitting					
01	Rc 1/8					
C6	ø6 One-touch fitting	SY5000				
C8	ø8 One-touch fitting					

Type 42/Common external pilot type

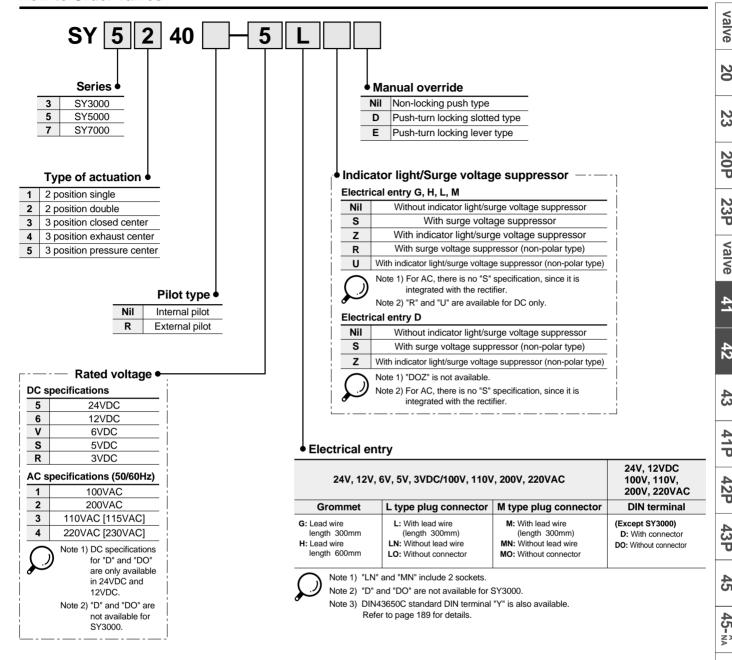


Symbol	Port size	Applicable series					
01	Rc 1/8						
C4	ø4 One-touch fitting	SY3000					
C6	ø6 One-touch fitting						
02	Rc 1/4						
C6	ø6 One-touch fitting	SY5000					
C8	ø8 One-touch fitting						
02	Rc 1/4	CV7000					
C10	ø10 One-touch fitting	SY7000					

How to Order Manifold Assemblies (Example)



How to Order Valves



operated



Manifold specifications

Model			SS5Y3-41	SS5Y3-41 SS5Y3-42 SS5Y5-41 SS5Y5-42									
Applica	able	valve	SY3	□40	SY5	SY5□40 SY7□40							
Manifo	old ty	ре	Single base type/B mount										
P (SUP)	/R (EX	(H) method	Common SUP/EXH										
Valve stations			2 to 20 stations Note 1)										
A, B port	t	Location	Base										
specifica	ations Direction		Side										
	P, EA, EB port		Rc	1/8	Rc 1/4 Rc 1/4								
Port			M5 x 0.8	Rc 1/8	Rc 1/8	Rc 1/4	Rc 1/4						
size	A, B port		C4 (ø4 One-touch fitting) C6 (ø6 One-touch fitting)	C4 (ø4 One-touch fitting) C6 (ø6 One-touch fitting)	C6 (ø6 One-touch fitting) C8 (ø8 One-touch fitting)	C6 (ø6 One-touch fitting) C8 (ø8 One-touch fitting)	C10 (ø10 One-touch fitting)						
Valve eff mm² (Cv		area Note 2)	C6: P to A/B 3.9 A/B to EA/B	96 (0.22) EB 4.14 (0.23)	C8: P to A/B 9 A/B to EA/	C10: P to A/B 16.2 (0.9) A/B to EA/EB 16.2 (0.9)							
Manifold base weight W (g) n: Number of stations			W = 30n + 50	W = 37n + 63	W = 61n + 101	W = 100n + 151							



Note 1) For 10 stations or more (5 stations or more in case of SS5Y7), supply pressure to P port on both sides and exhaust from EA and EB ports on both sides.

Note 2) Value when manifold base (5 stations) is mounted, with single action 2 position type.

Note 3) Refer to page 89 for manifold options.



Grommet (G)

Type 45□

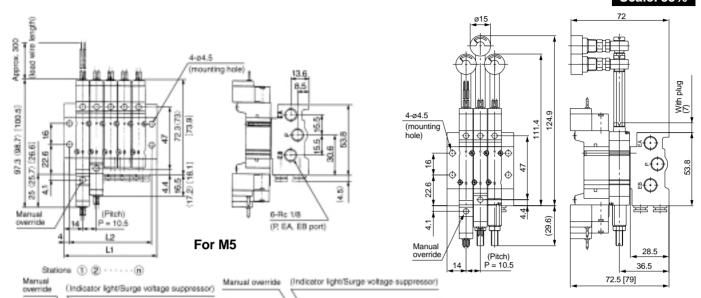
3 port valve operated

Order made

Precautions

With interface regulator (with gauge)

Scale: 35%



L type plug connector (L)

68.1

> 10.5 P = 10.5 (Pitch)

Approx. 300 **≥**⊕ 112 -⊕ :⊕

2n-One-touch fitting

(A, B port) Applicable tube O.D.: e4

57.5 (64)

5

10.5

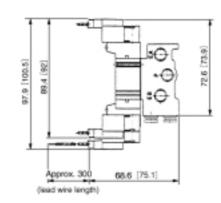
P = 10.5

M type plug connector (M)

80.7

2n-M5 x 0.8

(A, B port)



									_										
Stations n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	38.5	49	59.5	70	80.5	91	101.5	112	122.5	133	143.5	154	164.5	175	185.5	196	206.5	217	227.5
L2	30.5	41	51.5	62	72.5	83	93.5	104	114.5	125	135.5	146	156.5	167	177.5	188	198.5	209	219.5

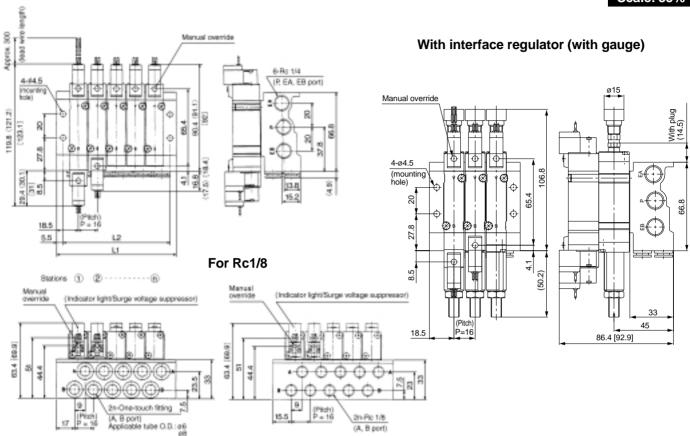
Type 41 manifold ... SS5Y32, #3 CAD



SY5000: SS5Y5-41- Stations -01, C6, C8



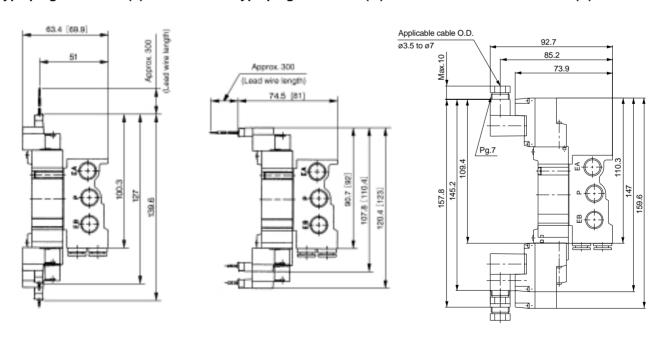
Grommet (G) Scale: 35%



L type plug connector (L)

M type plug connector (M)

DIN terminal (D)



Stations n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	52.5	68.5	84.5	100.5	116.5	132.5	148.5	164.5	180.5	196.5	212.5	228.5	244.5	260.5	276.5	292.5	308.5	324.5	340.5
L2	42	58	74	90	106	122	138	154	170	186	202	218	234	250	266	282	298	314	330

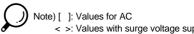


Type 41 manifold ... SS5Y52, #3



SY3000: SS5Y3-42- Stations -C4, C6





< >: Values with surge voltage suppressor

Single valve

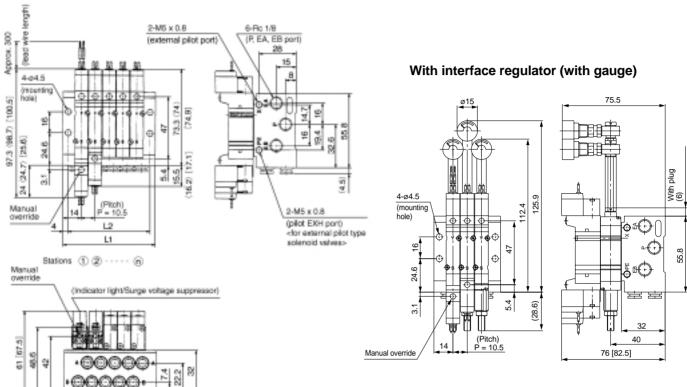
Type 45□

Order made

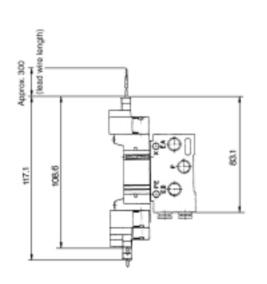
operated

Precautions

Grommet (G) **Scale: 35%**

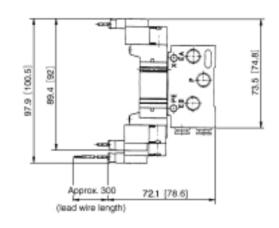


L type plug connector (L)



2n-One-touch fitting (A, B port) Applicable tube O.D.: e4 e6

M type plug connector (M)



Stations n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	38.5	49	59.5	70	80.5	91	101.5	112	122.5	133	143.5	154	164.5	175	185.5	196	206.5	217	227.5
L2	30.5	41	51.5	62	72.5	83	93.5	104	114.5	125	135.5	146	156.5	167	177.5	188	198.5	209	219.5

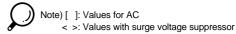


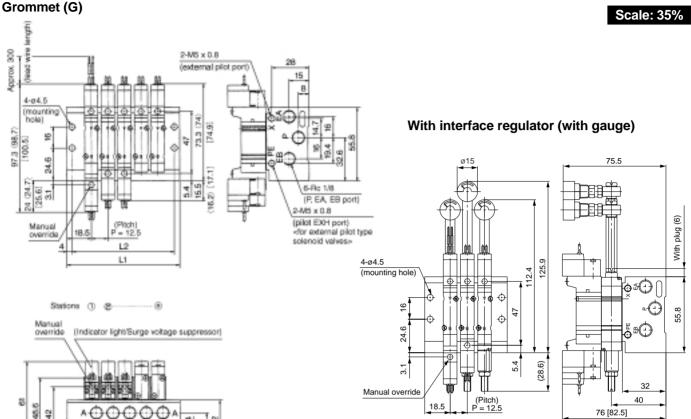
Type 42 manifold ... SS5Y32, #5



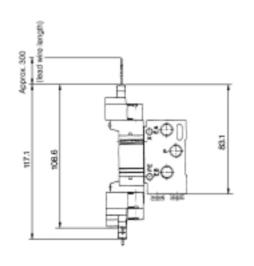
SY3000: SS5Y3-42- Stations -01





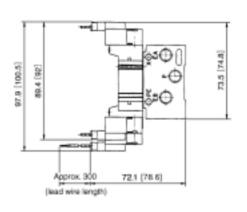


L type plug connector (L)



(A, B port)

M type plug connector (M)



Stations n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	47.5	60	72.5	85	97.5	110	122.5	135	147.5	160	172.5	185	197.5	210	222.5	235	247.5	260	272.5
L2	39.5	52	64.5	77	89.5	102	114.5	127	139.5	152	164.5	177	189.5	202	214.5	227	239.5	252	264.5



Type 42 manifold ... SS5Y32, #4



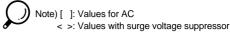


SY5000: SS5Y5-42- Stations -C6, C8



(Pitch) P = 16

Applicable cable O.D.



Single valve

50

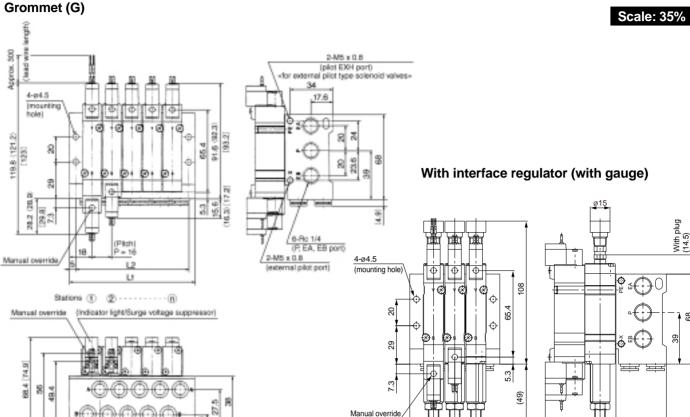
91.4 [97.9]

DIN terminal (D)

3 port valve operated

Order made

Precautions



L type plug connector (L)

68.4 [74.9]

15

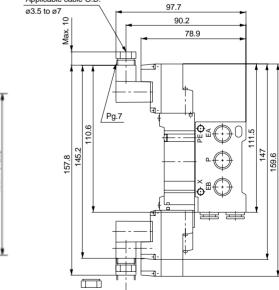
(A, B port) Applicable Tube O.D.: ø6

Арргок. 300

30.6 53

M type plug connector (M)

Арргок, 300 ead wire length) 79.5 [86] 91.8 (93.1) 20.4 [123]



Stations n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	52	68	84	100	116	132	148	164	180	196	212	228	244	260	276	292	308	324	340
L2	42	58	74	90	106	122	138	154	170	186	202	218	234	250	266	282	298	314	330

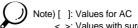
CAD

Type 42 manifold ... SS5Y52, #5



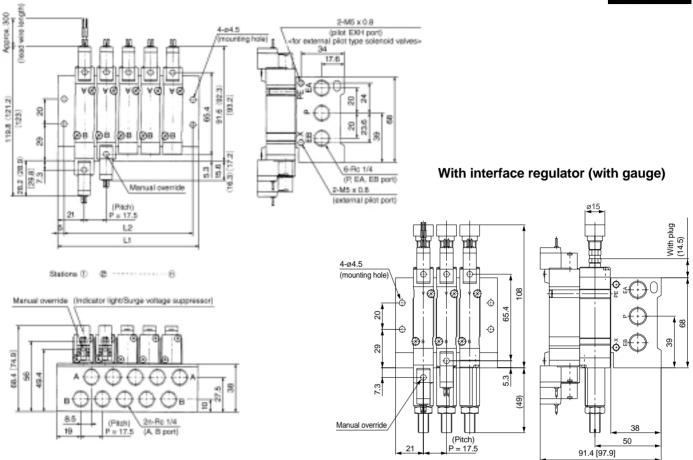
SY5000: SS5Y5-42- Stations -02





< >: Values with surge voltage suppressor

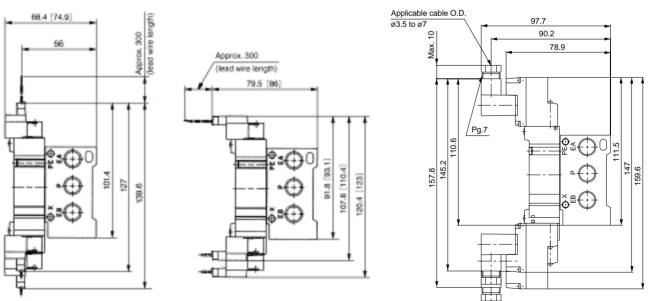
Grommet (G) Scale: 35%



L type plug connector (L)

M type plug connector (M)

DIN terminal (D)



Stations n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	59.5	77	94.5	112	129.5	147	164.5	182	199.5	217	234.5	252	269.5	287	304.5	322	339.5	357	374.5
L2	49.5	67	84.5	102	119.5	137	154.5	172	189.5	207	224.5	242	259.5	277	294.5	312	329.5	347	364.5



Type 42 manifold ... SS5Y52, #4



Single valve

SY7000: SS5Y7-42- Stations -02, C10

Grommet (G)

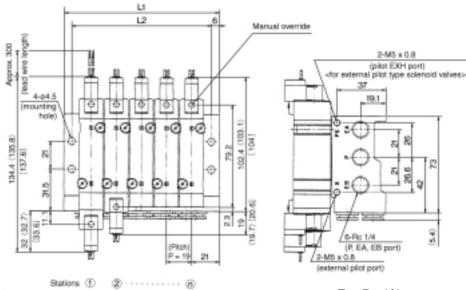


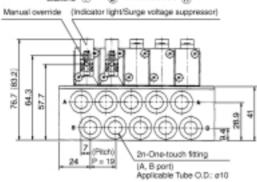


Note) []: Values for AC

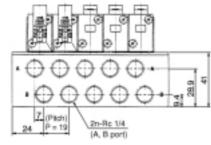
< >: Values with surge voltage suppressor







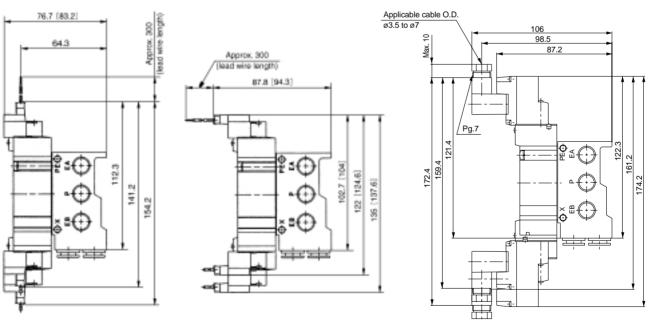
For Rc 1/4



L type plug connector (L)

M type plug connector (M)

DIN terminal (D)



Stations n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	61	80	99	118	137	156	175	194	213	232	251	270	289	308	327	346	365	384	403
L2	49	68	87	106	125	144	163	182	201	220	239	258	277	296	315	334	353	372	391

CAD

Type 42 manifold ... SS5Y72, #3

68

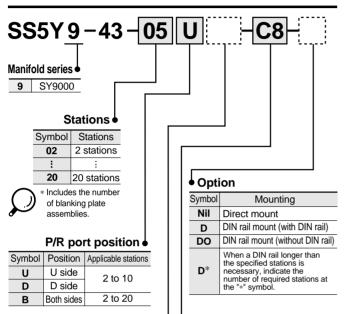
3 port valve operated

Order made



SY9000 **Base Mounted Type Manifold** Stacking Type/Individual Wiring

How to Order Manifolds



SUP/EXH	block	assembl	y spec	ification	4

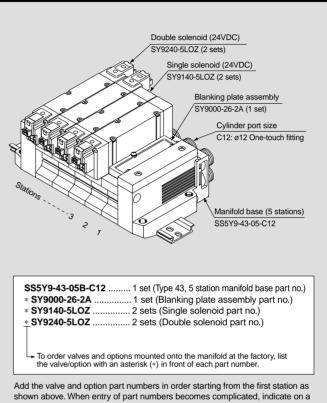
Symbol	Specification
Nil	Standard/Internal pilot
R	External pilot
S	Internal pilot with built-in silencer
RS	External pilot with built-in silencer

A/B port size

Symbol	Specification
C8	ø8 One-touch fitting
C10	ø10 One-touch fitting
C12	ø12 One-touch fitting
02	Rc 1/4
03	Rc 3/8
M	Mixed

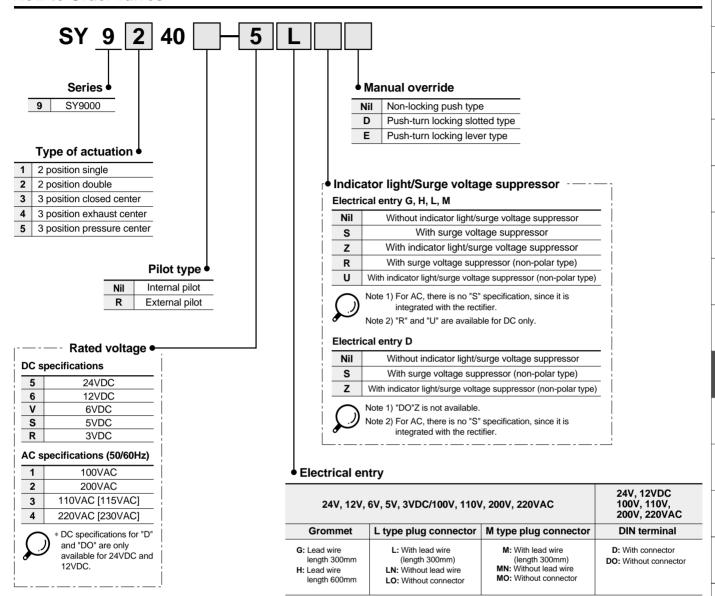
^{*} For mixed specifications, order separately on a manifold specification sheet.

How to Order Manifold Assemblies (Example)



shown above. When entry of part numbers becomes complicated, indicate on a manifold specification sheet. (Manifold Specification Sheet on page 195)

How to Order Valves



Note 1) "LN" and "MN" include 2 sockets.

Note 2) DIN43650C standard DIN terminal "Y" is also available. Refer to page 189 for details

operated





Manifold specifications

		-	2271/2 /2
Model			SS5Y9-43
Applic	able valv	re e	SY9□40
Manifo	old type		Stacking type
P (SU	P)/R (EX	H) method	Common SUP/EXH
Valve	stations		2 to 20 stations Note 1)
A, B p		Location	Base
specifi	ications	Direction	Side
	P, EA, I	EB port	C12 (ø12 One-touch fitting)
Port			Rc 1/4 Rc 3/8
size	A, B po	rt	C8 (ø8 One-touch fitting) C10 (ø10 One-touch fitting)
			C12 (Ø12 One-touch fitting)
		area Note 2)	P to A/B 30.46 (1.69)
mm² (C	Cv factor)		A/B to EA/EB 32.98 (1.83)
	Manifold base weight W (g) n: Number of stations		W = 107n + 330



Note 1) For 10 stations or more, supply pressure to P port on both sides and exhaust from EA and EB ports on both sides.

Note 2) Value when manifold base (5 stations) is mounted, with single action 2 position type.

Note 3) Refer to page 89 for manifold options.



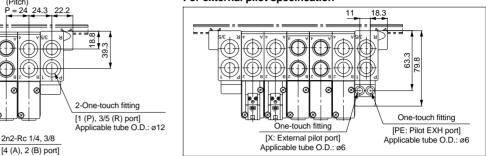
When P/R ports are located on the D side, the

Note) []: Values for AC

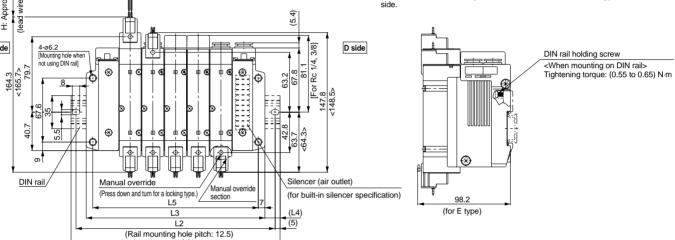
>: Values with surge voltage suppressor

Scale: 25%





* The air outlet and external pilot locations for the built-in silencer type are on the D side.



(Indicator light/Surge voltage suppressor) 94.2 [100.7] (6.7)

(Station 1)

(Station n)

Stations n	2	3	4	5	6	7	8	9	10
L1	148	173	198	223	248	260.5	285.5	310.5	335.5
L2	137.5	162.5	187.5	212.5	237.5	250	275	300	325
L3	117	141	165	189	213	237	261	285	309
L4	15.5	16	16.5	17	17.5	12	12.5	13	13.5
L5	103	127	151	175	199	223	247	271	295

L type plug connector (L)

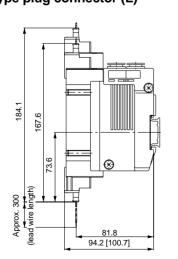
[1 (P), 3/5 (R) port] 2n1-One-touch fitting

G: Approx. 300 H: Approx. 600 (lead wire length)

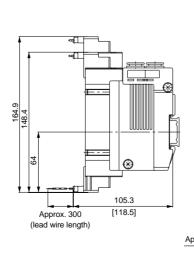
40.7

U side

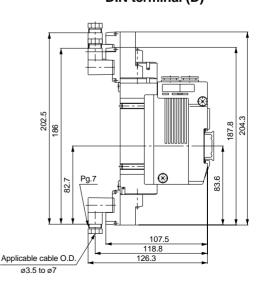
[4 (A), 2 (B) port] Applicable tube O.D.: Ø8



M type plug connector (M)



DIN terminal (D)



SMC

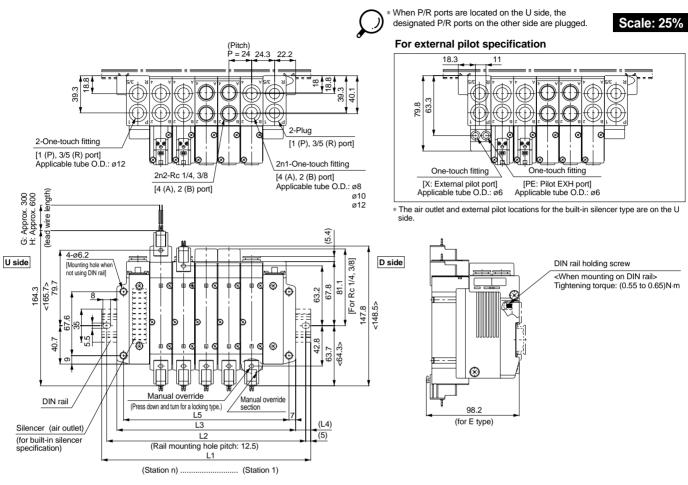
operated Order made

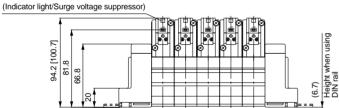
72



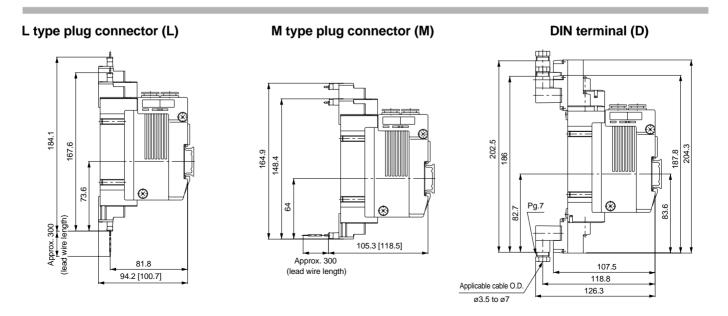








Stations n	2	3	4	5	6	7	8	9	10
L1	148	173	198	223	248	260.5	285.5	310.5	335.5
L2	137.5	162.5	187.5	212.5	237.5	250	275	300	325
L3	117	141	165	189	213	237	261	285	309
L4	15.5	16	16.5	17	17.5	12	12.5	13	13.5
L5	103	127	151	175	199	223	247	271	295



SY9000: SS5Y9-43- Stations B -02, 03, C8, C10, C12-(D)

(Pitch) P = 24

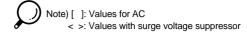
2n2-Rc 1/4, 3/8

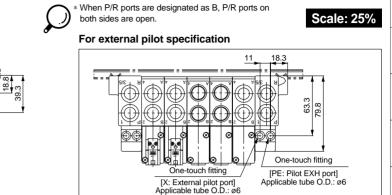
[4 (A), 2 (B) port]

8

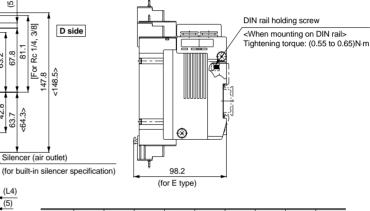
Manual override

section





* The air outlet and external pilot locations for the built-in silencer type are on the B side (both sides) .



Stations n	2	3	4	5	6	7	8	9	10
L1	148	173	198	223	248	260.5	285.5	310.5	335.5
L2	137.5	162.5	187.5	212.5	237.5	250	275	300	325
L3	117	141	165	189	213	237	261	285	309
L4	15.5	16	16.5	17	17.5	12	12.5	13	13.5
L5	103	127	151	175	199	223	247	271	295

Stations n	11	12	13	14	15	16	17	18	19	20
L1	360.5	385.5	410.5	435.5	460.5	485.5	510.5	535.5	560.5	573
L2	350	375	400	425	450	475	500	525	550	562.5
L3	333	357	381	405	429	453	477	501	525	549
L4	14	14.5	15	15.5	16	16.5	17	17.5	18	12
L5	319	343	367	391	415	439	463	487	511	535

L type plug connector (L)

[1(P), 3/5 (R) port] Applicable tube O.D.: ø12 2n1-One-touch fitting

300

Approx. 3 Approx. 6

U side

(lead üΞ

<165.7> 79.7

40.7

DIN rail

(Indicator light/Surge voltage suppressor)

8.99

94.2 [100.7]

164.3

[4 (A), 2 (B) port] Applicable tube O.D.: ø8

4-ø6.2

ø10 ø12

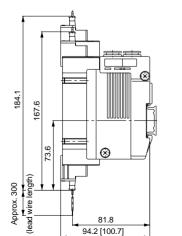
#

⊗

Manual override

(Press down and turn for a locking type.)

(Rail mounting hole pitch: 12.5)



M type plug connector (M)

Height when using DIN rail

(6.7)

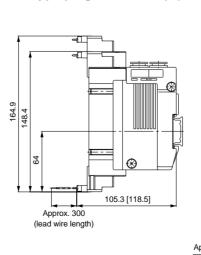
(5.4)

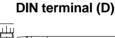
67.8

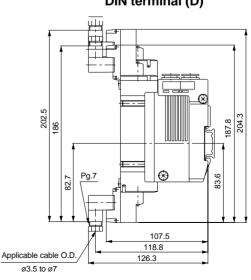
(L4) (5)

63.2

81.1 Rc 1/4,







SMC

operated Order made

Single valve

Type Type Single Type 20P 23P valve 41

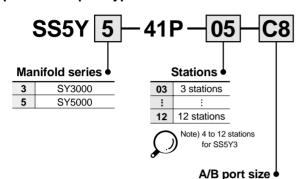
Precautions



SY3000/5000/7000 Base Mounted Type Manifold Bar Stock/Flat Ribbon Cable

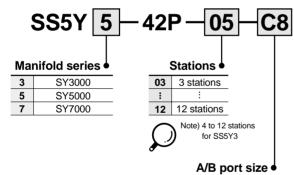
How to Order Manifolds

Type 41P/Compact type



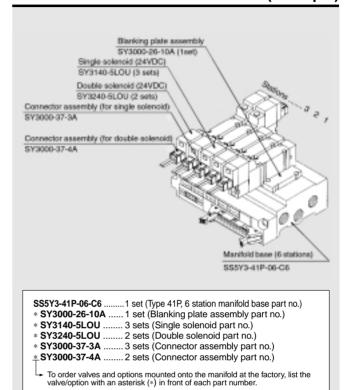
Symbol	Port size	Applicable series
M5	M5 x 0.8	
C4	ø4 One-touch fitting	SY3000
C6	ø6 One-touch fitting	
01	Rc 1/8	
C6	ø6 One-touch fitting	SY5000
C8	ø8 One-touch fitting	

Type 42P/Common external pilot type



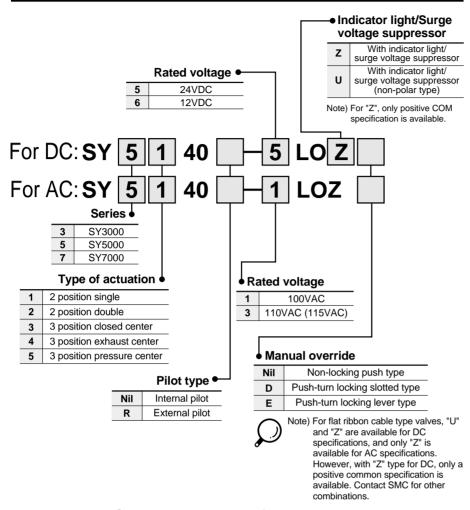
Symbol	Port size	Applicable series
01	Rc 1/8	
C4	ø4 One-touch fitting	SY3000
C6	ø6 One-touch fitting	
02	Rc 1/4	
C6	ø6 One-touch fitting	SY5000
C8	ø8 One-touch fitting	
02	Rc 1/4	SY7000
C10	ø10 One-touch fitting	317000

How to Order Manifold Assemblies (Example)



Add the valve and option part numbers in order starting from the first station as shown above. When entry of part numbers becomes complicated, indicate on a manifold specification sheet. (Manifold Specification Sheet on pages 196 to 198)

How to Order Valves



How to Order Connector Assemblies

For 12, 24VDC

Specification	SY3000	SY5000/7000
Single solenoid	SY3000-37-3A	SY5000-37-3A
Double solenoid/ 3 position	SY3000-37-4A	SY5000-37-4A
Single solenoid with spacer assembly	SY5000-37-3A	SY5000-37-5A
Double solenoid/3 position with spacer assembly	SY3000-37-6A	SY5000-37-6A

For 100VAC

Specification	SY3000	SY5000/7000
Single solenoid	SY3000-37-32A	SY5000-37-15A
Double solenoid/ 3 position	SY3000-37-33A	SY5000-37-16A
Single solenoid with spacer assembly	SY5000-37-15A	SY5000-37-17A
Double solenoid/3 position with spacer assembly	SY3000-37-34A	SY5000-37-18A

For 110VAC (115VAC)

	,	
Specification	SY3000	SY5000/7000
Single solenoid	SY3000-37-35A	SY5000-37-19A
Double solenoid/ 3 position	SY3000-37-36A	SY5000-37-20A
Single solenoid with spacer assembly	SY5000-37-19A	SY5000-37-21A
Double solenoid/3 position with spacer assembly	SY3000-37-37A	SY5000-37-22A





External wiring is bundled for one-touch wiring

Clean appearance

With the flat ribbon cable type, each valve is wired to the printed circuit board of the manifold base to allow the external wiring to be bundled with a 26 pin MIL connector for one-touch wiring.



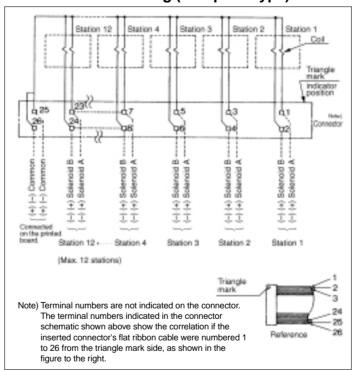
Flat cable manifold specifications

Mode	el		SS5Y3-41P	SS5Y3-42P	SS5Y5-41P	SS5Y5-42P	SS5Y7-42P			
Applicable valve SY3 40 SY5 40						□40	SY7□40			
Manif	Manifold type Single base type/B mount									
P (SUP)/R (EX	(H) method		С	ommon SUP/EX	Н				
Valve	statio	ons	4 to 12 sta	tions ^{Note 1)}	3 t	o 12 stations Note	e 1)			
A, B p		Location			Base					
specifi	cation	Direction			Side					
	P, EA	A, EB port	Rc ²	1/8	Rc	Rc 1/4				
Port size	A, B	port			Rc 1/8 Rc 1/4 C6 (ø6 One-touch fitting) C6 (ø6 One-touch fitting) C8 (ø8 One-touch fitting) C8 (ø8 One-touch fitting)		Rc 1/4 C10 (ø10 One-touch fitting)			
	effective v factor	area ^{Note 2)} r)	C6: P to A/B 3 A/B to EA/	.96 (0.22) /EB 4.14 (0.23)	9.54 (0.53) VEB 9.0 (0.5)	C10: P to A/B 16.2 (0.9) A/B to EA/EB 16.2 (0.9)				
Manifold base weight W (g) n: Number of stations			W = 39n + 83	W = 39n + 83		W = 109n + 174				
	able f	lat ribbon ector	Socke	Flat ribbon cable connector, Socket: 26 pin MIL, With strain relief, MIL-C-83503 conformity						
Internal wiring Common positive and negative COM (Only positive						positive COM for	or "Z" type)			
Rated	d volta	age		12, 2	24VDC/100, 110	VAC				



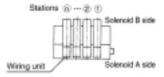
- Note 1) For 10 stations or more (5 stations or more in case of SS5Y7), supply pressure to P port on both sides and exhaust from EA and EB ports on both sides.
- Note 2) Value when manifold base (5 stations) is mounted, with single action 2 position type.
- Note 3) The withstand voltage specification for the wiring unit is equivalent to JIS C0704, class 1.
- Note 4) Refer to page 89 for manifold options.

Manifold internal wiring (non-polar type)





- Note 1) For 10 stations or more, wire both of the common poles.
- Note 2) For single solenoids, connect to the solenoid A side.
- Note 3) The maximum number of stations is 12. Contact SMC if more than 12 stations are required.





Non-polar type (U) valves with DC electrical connection can be used for both negative and positive COM. However, always use the positive COM with the "Z" type, since valves will not be actuated when the negative COM is used.



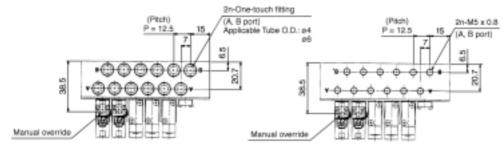
SY3000: SS5Y3-41P-Stations -M5, C4, C6

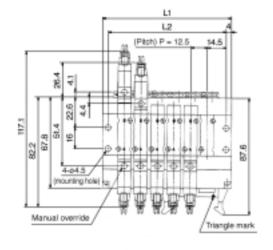


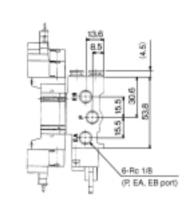




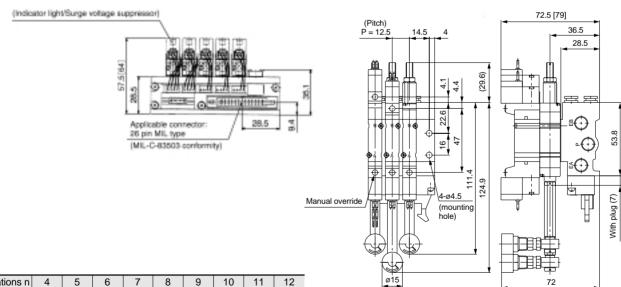
Scale: 35%







With interface regulator (with gauge)



Stations n	4	5	6	7	8	9	10	11	12
L1	72.5	85	97.5	110	122.5	135	147.5	160	172.5
L2	64.5	77	89.5	102	114.5	127	139.5	152	164.5

CAD

Type 41P manifold ... SS5Y32, #6

Single valve

78

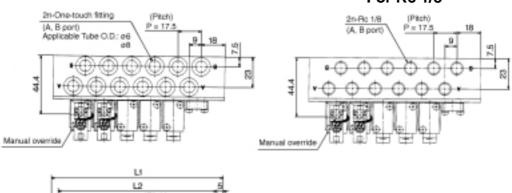


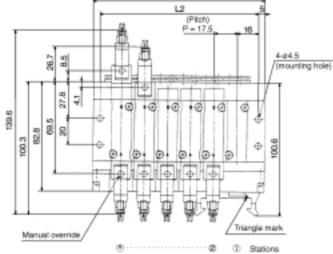
SY5000: SS5Y5-41P- Stations -01, C6, C8

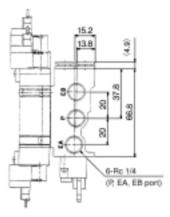


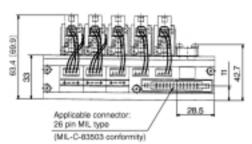




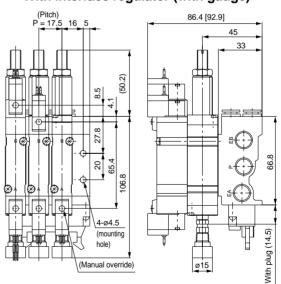








With interface regulator (with gauge)



Stations n	3	4	5	6	7	8	9	10	11	12
L1	77	94.5	112	129.5	147	164.5	182	199.5	217	234.5
L2	67	84.5	102	119.5	137	154.5	172	189.5	207	224.5



Type 41P manifold ... SS5Y52, #6



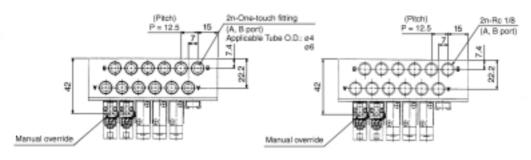
SY3000: SS5Y3-42P- Stations -01, C4, C6

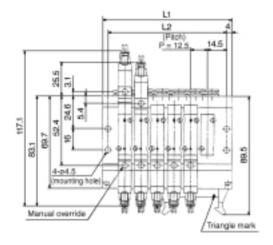


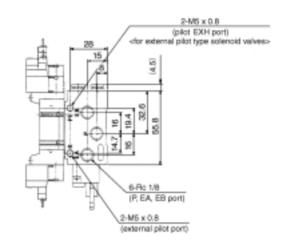


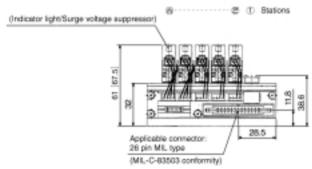
For Rc 1/8

Scale: 35%

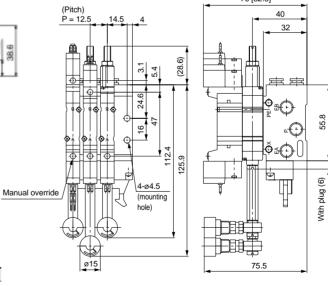








With interface regulator (with gauge) 76 [82.5]



Stations n	4	5	6	7	8	9	10	11	12
L1	72.5	85	97.5	110	122.5	135	147.5	160	172.5
L2	64.5	77	89.5	102	114.5	127	139.5	152	164.5

Type 42P manifold ... SS5Y32, #7



Single valve

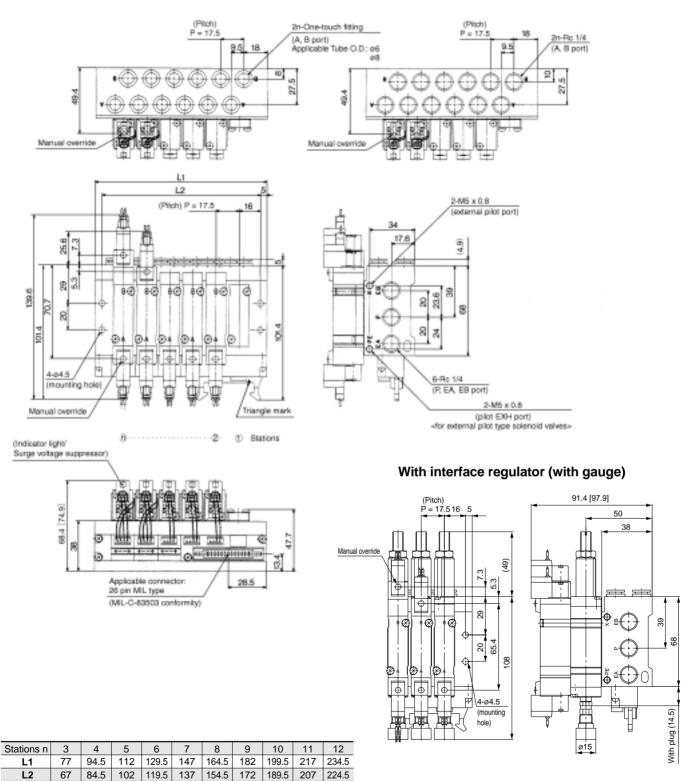


SY5000: SS5Y5-42P- Stations -02, C6, C8



For Rc 1/4

Scale: 35%



CAD

Type 42P manifold ... SS5Y52, #7

Single valve

SY7000: SS5Y7-42P- Stations -02, C10

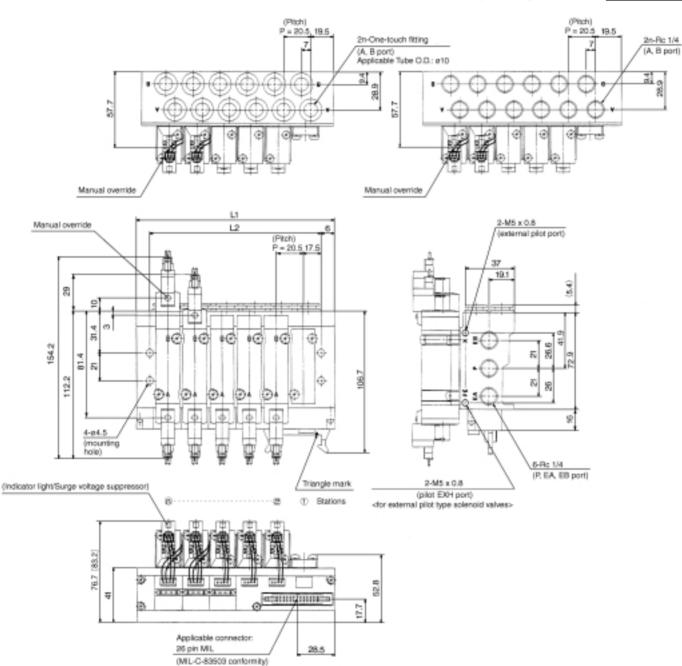












Stations n	3	4	5	6	7	8	9	10	11	12
L1	88	108.5	129	149.5	170	190.5	211	231.5	252	272.5
L2	76	96.5	117	137.5	158	178.5	199	219.5	240	260.5

CAD

Type 42P manifold ... SS5Y72, #4

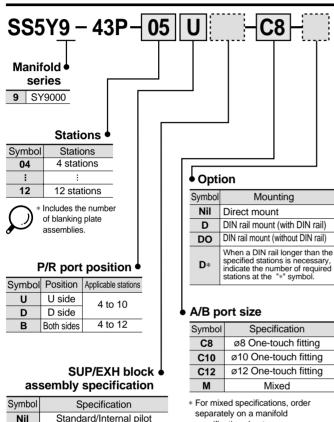
operated Order made

82



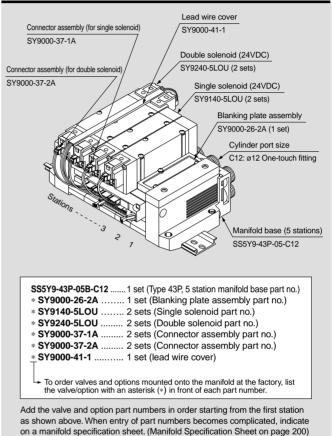
SY9000 **Base Mounted Type Manifold** Stacking Type/Flat Ribbon Cable

How to Order Manifolds



separately on a manifold specification sheet.

How to Order Manifold Assemblies (Example)





Nil

R

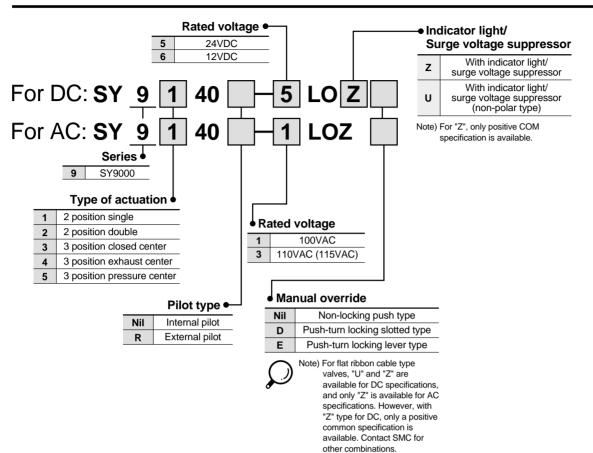
s

RS

External pilot

Internal pilot with built-in silencer

External pilot with built-in silencer



How to Order Connector Assemblies

For 12, 24VDC

Specification	SY9000
Single solenoid	SY9000-37-1A
Double solenoid/ 3 position	SY9000-37-2A
Single solenoid with spacer assembly	SY9000-37-3A
Double solenoid/3 position with spacer assembly	SY9000-37-4A

For 100VAC

Specification	SY9000
Single solenoid	SY9000-37-1B
Double solenoid/ 3 position	SY9000-37-2B
Single solenoid with spacer assembly	SY9000-37-3B
Double solenoid/3 position with spacer assembly	SY9000-37-4B

For 110VAC (115VAC)

SY9000
SY9000-37-1C
SY9000-37-2C
SY9000-37-3C
SY9000-37-4C

Single \alve

Type 20

3 Tyl

Type S 23P

ingle Ty

/pe Ty

12 e 1 y

41P

Typ∈ 42P

Type 43P

> ype Tyr 45 45-

Type 45

3 port A

led Ordei

Manifold spec. sheets



• External wiring is bundled for one-touch wiring

Clean appearance

With the flat ribbon cable type, each valve is wired to the printed circuit board of the manifold base to allow the external wiring to be bundled with a 26 pin MIL connector for one-touch wiring.



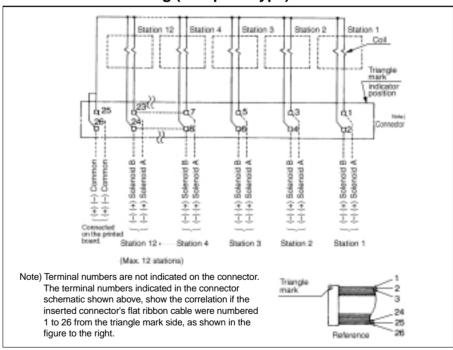
Flat cable manifold specifications

Model		SS5Y9-43P	
Applicable v	alve	SY9□40	
Manifold type		Stacking type	
P (SUP)/R (I	EXH) method	Common SUP/EXH	
Valve station	ns	4 to 12 stations Note 1)	
A, B port	Location	Base	
specifications	Direction	Side	
	P, EA, EB port	C12 (ø12 One-touch fitting)	
Port size	A, B port	Rc 1/4 Rc 3/8 C8 (ø8 One-touch fitting) C10 (ø10 One-touch fitting) C12 (ø12 One-touch fitting)	
Valve effectiv mm² (Cv factor		C12: P to A/B 30.46 (1.69) A/B to EA/EB 32.98 (1.83)	
Manifold base n: Number of	e weight W (g) stations	W = 114n + 343	
Applicable flat ribbon cable connector, Socket: 26 pin MIL, With strain relief, MIL-C-83503 conformi		Flat ribbon cable connector, Socket: 26 pin MIL, With strain relief, MIL-C-83503 conformity	
Internal wirin	ng	Common positive and negative COM (Only positive COM for "Z" type)	
Rated voltag	je	12, 24VDC/100, 110VAC	



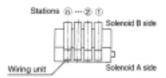
- Note 1) For 10 stations or more, supply pressure to P port on both sides and exhaust from EA and EB ports on both sides.
- Note 2) Value when manifold base (5 stations) is mounted, with single action 2 position type.
- Note 3) The withstand voltage specification for the wiring unit is equivalent to JIS C0704, class 1.
- Note 4) Refer to page 89 for manifold options.

Manifold internal wiring (non-polar type)





- Note 1) For 10 stations or more, wire both of the common poles.
- Note 2) For single solenoids, connect to the solenoid A side.
- Note 3) The maximum number of stations is 12. Contact SMC if more than 12 stations are required.





Non-polar type (U) valves with DC electrical connection can be used for both negative and positive COM. However, always use the positive COM with the "Z" type, since valves will not be actuated when the negative COM is used.



SY9000: SS5Y9-43P- Stations D

-02, 03, C8, C10, C12-(D)

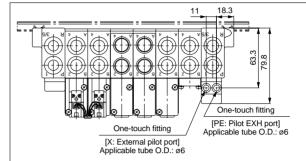




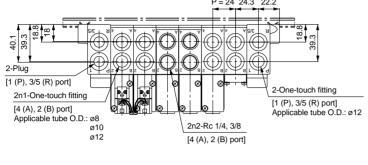
When P/R ports are located on the D side. the designated P/R ports on the other side are plugged.

Scale: 25%

For external pilot specification

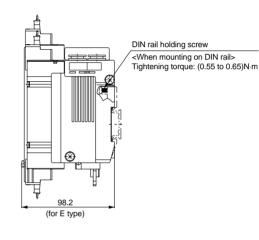


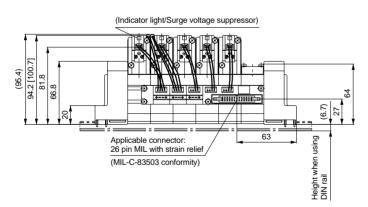
* The air outlet and external pilot locations for the built-in silencer type are on the D



(5) (Rail mounting hole pitch: 12.5) (L4) U side D side Ľ3 (5.4)4-ø6.2 [For Rc 1/4, 3/8] 7.67 ⊗ 63.2 67.8 184.1 40.7 73.6 Silencer (air outlet) Manual override Triangle mark (Press down and turn for a locking type.) (for built-in silencer specification)

.. (Station 1)





(Station n)

Stations n	4	5	6	7	8	9	10
L1	198	223	248	260.5	285.5	310.5	335.5
L2	187.5	212.5	237.5	250	275	300	325
L3	165	189	213	237	261	285	309
L4	16.5	17	17.5	12	12.5	13	13.5
L5	151	175	199	223	247	271	295

valve	3 port
operated	Air

Precautions

Manual override section

Single valve

Type Type Single Type Type Type Type Type 20P 23P valve 41 42 43 41P 42P



2-One-touch fitting

[1 (P), 3/5 (R) port] Applicable tube O.D.: ø12

SY9000: SS5Y9-43P-Stations U -02, 03, C8, C10, C12-(D)





ø10 ø12

2-Plug

2n1-One-touch fitting [4 (A), 2 (B) port] Applicable tube O.D.: Ø8

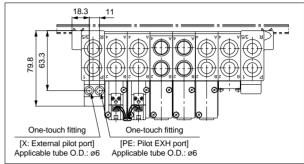
[1 (P), 3/5 (R) port]

Manual override section

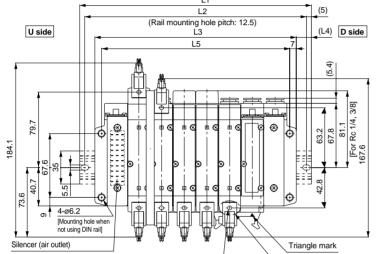
When P/R ports are located on the U side, the designated P/R ports on the other side are plugged.

Scale: 25%





* The air outlet and external pilot locations for the built-in silencer type are on the U side.



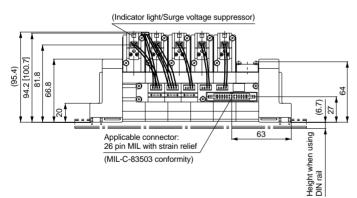
2n2-Rc 1/4, 3/8

[4 (A), 2 (B) port]

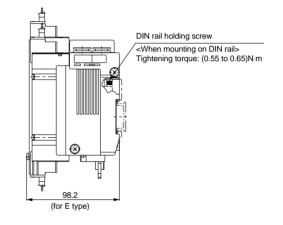
(Station n) (Station 1)

Manual override

(Press down and turn for a locking type.)



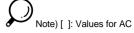
Stations n	4	5	6	7	8	9	10
L1	198	223	248	260.5	285.5	310.5	335.5
L2	187.5	212.5	237.5	250	275	300	325
L3	165	189	213	237	261	285	309
L4	16.5	17	17.5	12	12.5	13	13.5
L5	151	175	199	223	247	271	295



Type Type Single Type Type Type Type Type Type 20P 23P valve 41 42 43 41P 42P

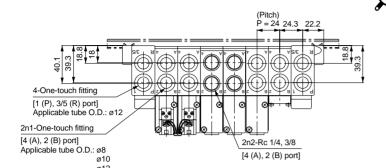
SY9000: SS5Y9-43P- Stations B

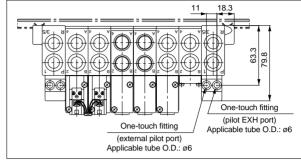
-02, 03, C8, C10, C12-(D)



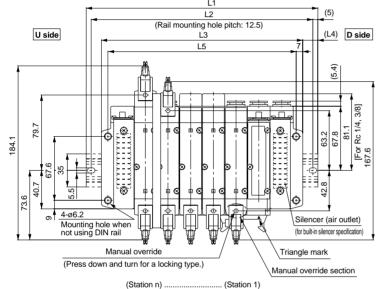
When P/R ports are designated as B, P/R ports on both sides are open. For external pilot specification

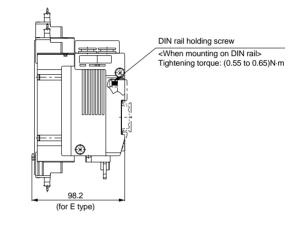
Scale: 25%

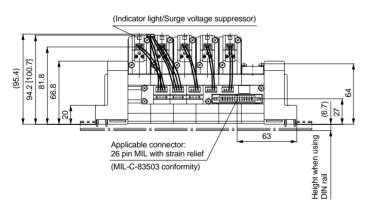




* The air outlet and external pilot locations for the built-in silencer type are on the B side (both sides) .







Staions n	4	5	6	7	8	9	10	11	12
L1	198	223	248	260.5	285.5	310.5	335.5	360.5	385.5
L2	187.5	212.5	237.5	250	275	300	325	350	375
L3	165	189	213	237	261	285	309	333	357
L4	16.5	17	17.5	12	12.5	13	13.5	14	14.5
L5	151	175	199	223	247	271	295	319	343

operated

Order made

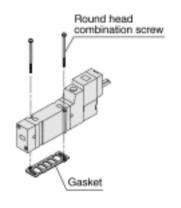
Precautions

■ For types 41, 42, 43 Blanking plate assembly



Series	Assembly part no.
SY3000	SY3000-26-9A
SY5000	SY5000-26-18A
SY7000	SY7000-26-20A
SY9000	SY9000-26-2A

■ Bolt & gasket part numbers



Series	Round head combination screw	Gasket
SY3000	SY3000-23-4 (M2 x 21)	SY3000-11-25
SY5000	M3 x 26 (Flat nickel plated)	SY5000-11-13
SY7000	M4 x 31 (Flat nickel plated)	SY7000-11-7
SY9000	SY9000-18-2 (M3 x 42)	SY9000-11-2

∆ Caution

Mounting screw tightening torques

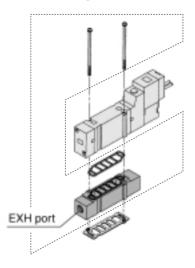
M2: 0.15N·m M3: 0.6N·m M4: 1.4N·m

■ For types 41P, 42P, 43P Blanking plate assembly



Series	Assembly part no.
SY3000	SY3000-26-10A
SY5000	SY5000-26-19A
SY7000	SY7000-26-21A
SY9000	SY9000-26-4A

■ Individual EXH spacer assembly

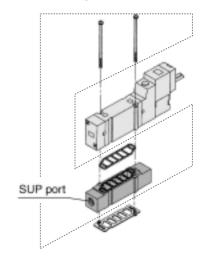


Series	Assembly part no.	Port size
SY3000	SY3000-39-2A	M5 x 0.8
SY5000	SY5000-39-2A	Rc 1/8
SY7000	SY7000-39-2A	Rc 1/4
SY9000	SY9000-39-2A	Rc 1/4



Note) In case of types 41P, 42P, and 43P, to protect from drainage, arrange the piping on the EA port (wiring unit side) so that the wiring unit will not be exposed to the direct exhaust from the valve.

■ Individual SUP spacer assembly



Series	Assembly part no.	Port size
SY3000	SY3000-38-2A	M5 x 0.8
SY5000	SY5000-38-2A	Rc 1/8
SY7000	SY7000-38-2A	Rc 1/4
SY9000	SY9000-38-2A	Rc 1/4

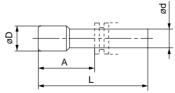


Note 1) The SUP port can be on the lead wire side or end plate side for SY3000/5000/7000. (The SUP port direction is as shown above when shipped already assembled.)

Note 2) For SY9000, the SUP port is only available on the end plate side.

■ Plug (white)

Insert into unused cylinder ports and SUP/EXH ports.
The minimum order quantity is 10 pieces. Order in multiples of 10.



Dimensions

Applicable fitting size ød	Model	А	L	D
4	KQ2P-04	16	32	6
6	KQ2P-06	18	35	8
8	KQ2P-08	20.5	39	10
10	KQ2P-10	22	43	12
12	KQ2P-12	24	45.5	14



■ SUP block disc (SY9000)

By installing a SUP block disc in the pressure supply passage of the manifold base, two or more different pressures, high or low, can be supplied to one manifold.



Series	Part no.
SY9000	SY9000-57-1A

■ EXH block disc (SY9000)

By installing an EXH block disc in the exhaust passage of the manifold base, the passage can be divided so that the exhaust from one valve will not affect another valve. (Two block discs are required to block both EXH ports.)



Series	Part no.
SY9000	SY9000-57-1A

■ Labels for block disc (SY9000)

Labels are applied to blocks with SUP and EXH block discs for external confirmation of blocked passages. (3 labels per package)

VZ3000-123-1A

SUP block disc label









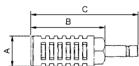




Note) When block discs are ordered with manifolds using a manifold specification sheet, block disc labels are already applied if the block discs are installed at the time of shipment.

■ Silencer with One-touch fitting (SY9000)

Can be attached with one touch to the R (EXH) port of the manifold.



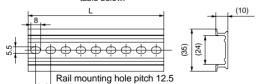
Series	Model	Effective area	Α	В	С
For SY9000 (ø12)	AN300-KM12	41mm²	ø25	70	98

■ SY9000 DIN rail dimensions and weights

VZ1000-11-4-

Refer to the table below for dimension L.

* Specify a number inside ☐ from the DIN rail dimension table below.



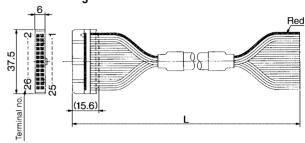
No.	0	1	2	3	4	5	6	7	8	9
Dimension L	98	110.5	123	135.5	148	160.5	173	185.5	198	210.5
Weight (g)	24.8	28	31.1	34.3	37.4	40.6	43.8	46.9	50.1	53.3
No.	10	11	12	13	14	15	16	17	18	19
Dimension L	223	235.5	248	260.5	273	285.5	298	310.5	323	335.5
Weight (g)	56.4	59.6	62.7	65.9	69.1	72.2	75.4	78.6	81.7	84.9
No.	20	21	22	23	24	25	26	27	28	29
Dimension L	348	360.5	373	385.5	398	410.5	423	435.5	448	460.5
Weight (g)	88	91.2	94.4	97.5	100.7	103.9	107	110.2	113.3	116.5



Note) Refer to page 236 regarding DIN rails. Refer to dimension L1 on pages 86 through 88 for lengths that correspond to the number of manifold stations.

■ Cable assembly

AXT100-FC26-2



Flat ribbon cable connector assembly

Cable length (L)	Assembly part no.	Note
1.5m	AXT100-FC26-1	
3m	AXT100-FC26-2	26 core cable x 28AWG
5m	AXT100-FC26-3	



* For other commercial connectors, use a 26 pin type with strain relief conforming to MIL-C-83503.

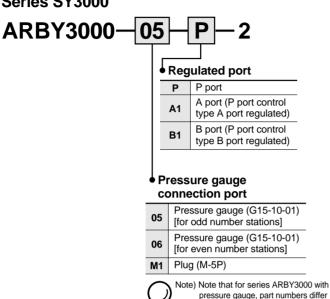
Connector manufacturer examples

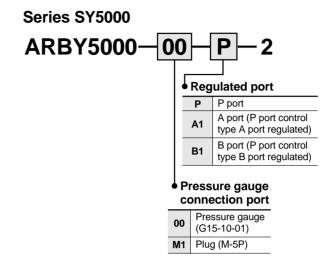
- Hirose Electric Company
- Japan Aviation Electronics Industry, Ltd.
- Sumitomo/3-M Limited
- J.S.T. Mfg. Co., Ltd.
- Fujitsu, Ltd.



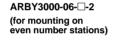
■ How to order interface regulators (SY3000/5000 only)

Series SY3000

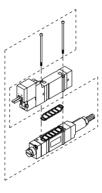




ARBY3000-05-□-2 (for mounting on odd number stations)

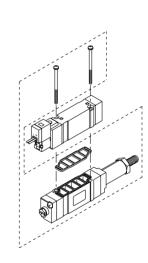


for odd number and even number stations to prevent interference between the pressure gauges when mounted on the manifold.

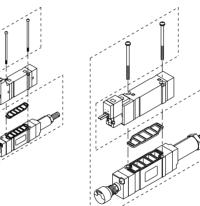


ARBY3000-M1-□-2

ARBY5000-00-□-2



ARBY5000-M1-□-2



Accessories

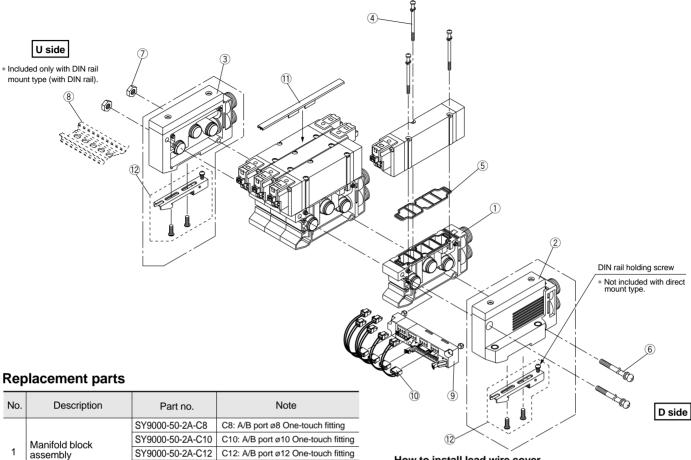
Series	Round head combination screw	Gasket
ARBY3000	SY3000-23-10 (M2 x 36)	SX3000-57-4
ARBY5000	M3 x 48.5 (Flat nickel plated)	SX5000-57-5

⚠ Caution

Mounting screw tightening torques

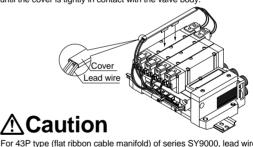
M2: 0.15N·m M3: 0.6N·m

Exploded View of Base Mounted Type Manifold



How to install lead wire cover

Lead wire cover is only used for double solenoid valves. As shown in the expanded view below, insert lead wires inside the lead wire cover and push until the cover is tightly in contact with the valve body



For 43P type (flat ribbon cable manifold) of series SY9000, lead wire cover to bundle lead wire of each solenoid is available.

When double solenoid valves are added, order lead wire covers separately.

SUP/EXH Block Assembly 2 Part Nos. (D Side Mount Type)

SY9000-50-2A-02

SY9000-50-2A-03

SY9000-18-2

SY9000-11-2

SY9000-23-

SY9000-25-1

VZ1000-11-4-□

SY9000-36-□A

SY9000-37-□□

SY9000-41-1

Round head combination screw

Wiring unit assembly

Connector assembly

Clamp bracket sub-assembly SY9000-30-1A

Lead wire cover

5

6

7

8

9

10

11

Gasket

DIN rail

Tension bolt

Hexagon nut

02: A/B port Rc 1/4

03: A/B port Rc 3/8

Refer to page 90. Specify the number of stations

Refer to page 84

M3 x 42 (Flat nickel plated)

Specify the number of stations

(4 to 12) inside □ in the part number.

Included with the DIN rail mount type.

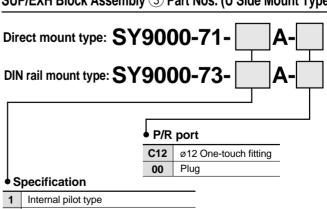
inside \square in the part number.



		P/R port			
		C12	ø12 One-touch fitting		
		00	Plug		
∳ S	pecification				
1	Internal pilot type	•			

	internal pilot type
3	External pilot type
4	Internal pilot with built-in silencer type
5	External pilot with built-in silencer type

SUP/EXH Block Assembly 3 Part Nos. (U Side Mount Type)



1	Internal pilot type
3	External pilot type
4	Internal pilot with built-in silencer type
5	External pilot with built-in silencer type

operated

Precautions

Manifold Base Expansion (for SY9000 Only) Stations can be added in a desired location.

For type 43 manifold base expansion, tension bolts are required as well as a manifold block assembly. Tension bolts vary in length depending on the number of stations; therefore, order the appropriate tension bolts for the

expanded (or reduced) manifold base. (Changes in the number of stations for type 43P manifolds require wiring units and lead wire assemblies for any additional stations.)

1 Loosen the two tension bolts 6 that connect the manifold base and remove them.

(In case of a DIN rail type, also loosen the DIN rail holding screw on either the U side or D side.)

2 Separate the blocks at the location where a new station is to be added.

Mount the manifold block assembly to be added.

4 Hold the blocks so that there is no space between them, insert the appropriate tension bolts into the expanded manifold base and tighten them.

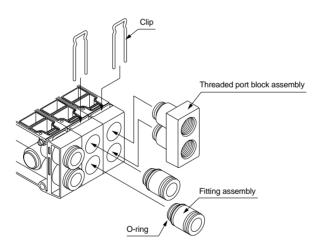
↑ Caution (Tightening torque: 2.9N·m)

(With the DIN rail type, be sure to tighten the tension bolts first, and then tighten the DIN rail holding screws. Tightening torque: 1.4N·m)

- Be sure to turn off the power supply and air supply before disassembling. Furthermore, confirm that the air is completely exhausted before beginning disassembly, since residual air may be present inside the actuator, piping, and manifold.
- 2. When disassembly and assembly are performed, insufficient tightening of the tension bolts will cause air leakage.
- 3. A type 43 manifold can be changed into a type 43P manifold by adding a wiring unit assembly.

Replacement of A/B Port Fitting Assembly

By replacing manifold block fitting assemblies or the threaded port block assembly of a type 43(P) manifold, the port size of the A and B ports can be changed. To replace these parts, remove the clip with a flat head screw driver after the valve has been removed. Insert the fitting assemblies or threaded port block assembly, and then reinsert the clip so that it does not protrude from the manifold block.



Fitting assembly part nos.

Connection port size	Part no.
ø8 One-touch fitting assembly	VVQ4000-50B-C8
ø10 One-touch fitting assembly	VVQ4000-50B-C10
ø12 One-touch fitting assembly	VVQ4000-50B-C12
Rc 1/4 Threaded port block assembly	SY9000-58A-02
Rc 3/8 Threaded port block assembly	SY9000-58A-03
Plug assembly	SY9000-62-1A

Note 1) Do not scratch or put foreign matter on the O-ring, as this will cause air leakage.

Note 2) One-touch fittings for P/R ports can be replaced also. However, if a fitting smaller than the standard size (ø12) is used, air supply and exhaust may be insufficient when there is frequent simultaneous operation of solenoid valves. Also, the fittings used are the same as those used for the A/B ports, however, threaded port block assemblies cannot be used.



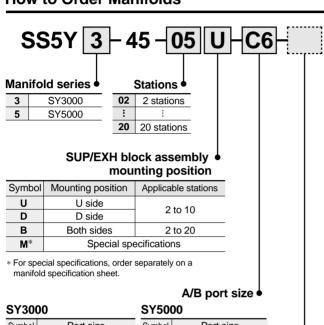




SY3000/5000 Base Mounted Type Manifold Stacking Type/DIN Rail Mount Individual Wiring



How to Order Manifolds



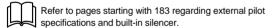
ymbol Port size Symbol

Symbol	Port Size	Symbol	Port size
C4 ø4 One-touch fitting		C4	ø4 One-touch fitting
C6 ø6 One-touch fitting		C6	ø6 One-touch fitting
M* Mixed		C8	ø8 One-touch fitting
		M*	Mixed

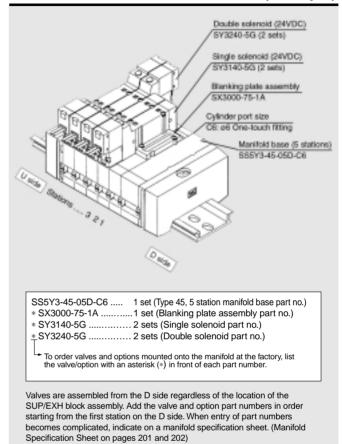
For mixed specifications, order separately on a manifold specification sheet.

Option •

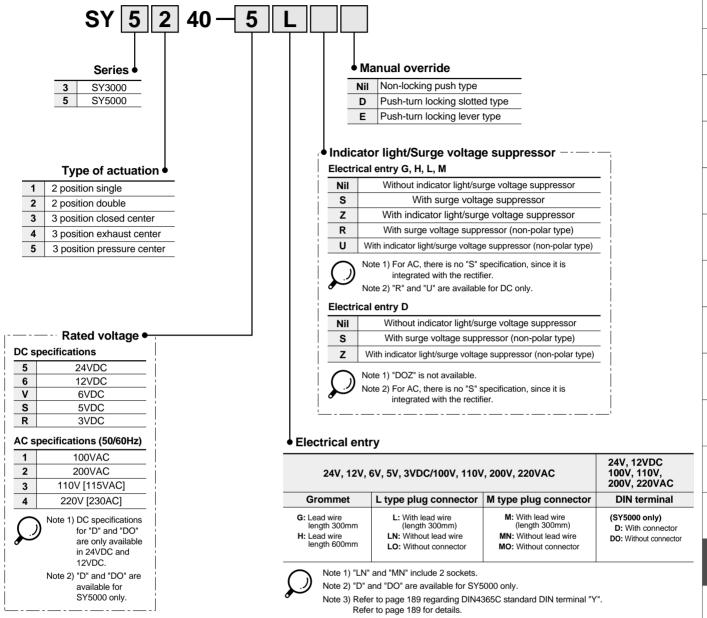
When a DIN rail longer than the specified stations is necessary, indicate the number of required stations. (Max. 20 stations)



How to Order Manifold Assemblies (Example)



How to Order Valves



ype Type Ty 23 20P 2

e Single T

ype Tyl 41 4:

43

1ype 41P

> Type 42P

Type 43P

Type

Type

Type ⊔5

3 port Air

)rder | Ma nade | si

Vlanifold spec. sheets

Precautions



Manifold specifications

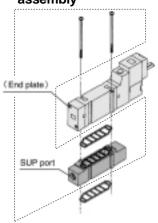
Model		SS5Y3-45	SS5Y5-45		
Applicable valve		SY3□40	SY5□40		
Manifold type		Stacking type/DIN rail			
P (SUP)/R (EXH) method	Common SUP/EXH			
Valve stations		2 to 20 stations Note 1)			
A, B port	Location	Base			
specifications	Direction	Side			
	P, R port	C8 (ø8 One-touch fitting)	C10 (ø10 One-touch fitting)		
Port size	A, B port	C4 (ø4 One-touch fitting) C6 (ø6 One-touch fitting)	C4 (ø4 One-touch fitting) C6 (ø6 One-touch fitting) C8 (ø8 One-touch fitting)		
Valve effective area Note 2) mm² (Cv factor)		C6: P to A/B 4.68 (0.26) A/B to R 4.68 (0.26)	C8: P to A/B 12.6 (0.7) A/B to R 12.6 (0.7)		
Manifold base weight W (g) n: Number of stations		For 2 to 10 stations: W = 22n + 118 For 11 to 20 stations: W = 22n + 140	For 2 to 10 stations: W = 47n + 156 For 11 to 20 stations: W = 47n + 190		



Note 1) For 11 stations or more, supply pressure to P port on both sides and exhaust from R port on both sides.

Note 2) Value when manifold base (5 stations) is mounted, with single action 2 position type.

■ Individual SUP spacer assembly

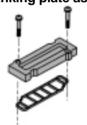


Series	Assembly part no.	Port size	
SY3000	SY3000-38-2A	M5 x 0.8	
SY5000	SY5000-38-2A	Rc 1/8	



Note) The SUP port can be on the lead wire side or end plate side. (It is as shown above when shipped already assembled.)

■ Blanking plate assembly



Series	Assembly part no.		
SY3000	SX3000-75-1A		
SY5000	SX5000-76-1A		

■ DIN rail dimensions

VZ1000-11-1-

Refer to the table below for dimension L.

■ Individual EXH spacer

Series Assembly part no. Port size SY3000 SY3000-39-2A M5 x 0.8

SY5000 SY5000-39-2A Rc 1/8

sembled.)

⊈\Caution Mounting screw tightening torques

M2: 0.15N·m

M3: 0.6N·m M4: 1.4N·m

Note) The EXH port can be on the lead wire side

or end plate side. (It is

as shown above when

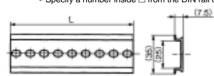
shipped already as-

assembly

(End plate)

EXH port

* Specify a number inside \square from the DIN rail dimension table



						_	-				
No.	0	1	2	3	4	5	6	7	8	9	10
Dimension L	98	110.5	123	135.5	148	160.5	173	185.5	198	210.5	223
No.	11	12	13	14	15	16	17	18	19	20	21
Dimension L	235.5	248	260.5	273	285.5	298	310.5	323	335.5	348	360.5
No.	22	23	24	25	26	27	28	29	30	31	32
Dimension L	373	385.5	398	410.5	423	435.5	448	460.5	473	485.5	498
No.	33	34	35	36	37	38	39	40	41	42	43
Dimension L	510.5	523	535.5	548	560.5	573	585.5	598	610.5	623	635.5
No.	44	45	46	47	48	49	50	51	52	53	54
Dimension L	648	660.5	673	685.5	698	710.5	723	735.5	748	760.5	773
No.	55	56	57	58	59	60	61	62	63	64	65
Dimension L	785.5	798	810.5	823	835.5	848	860.5	873	885.5	898	910.5
No.	66	67	68	69	70	71					
Dimension L	923	935.5	948	960.5	973	985.5					



Note) Refer to dimension L1 on pages starting with 101 for lengths that correspond to the number of manifold stations.

■ SUP block disc

By installing a SUP block disc in the pressure supply passage of the manifold base, two or more different pressures, high or low, can be supplied to one manifold.



Series	Part no.		
SY3000	SX3000-77-1A		
SY5000	SX5000-77-1A		

■ EXH block disc

By installing an EXH block disc in the exhaust passage of the manifold base, the passage can be divided so that the exhaust from one valve will not affect other valves. (Two block discs are required to block both EXH ports.)



Series	Part no.		
SY3000	SX3000-77-1A		
SY5000	SX5000-77-1A		

■ Labels for block disc

Labels are applied to blocks with SUP and EXH block discs for external confirmation of blocked passages. (3 labels per package)

VZ3000-123-1A

SUP block disc label





EXH block disc label



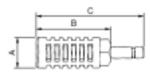
SUP/EXH block disc label



* When block discs are ordered with manifolds using a manifold specification sheet, block disc labels are already applied where block discs are installed at the time of shipment.

■ Silencer with One-touch fitting

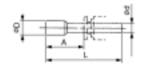
Can be attached with one touch to the R (EXH) port of the manifold.



Series	Model	Effective area	Α	В	С
SY3000 (Ø8)	AN203-KM8	14mm²	ø16	26	51
SY5000 (Ø10)	AN200-KM10	26mm²	ø22	53.8	80.8
3 1 3000 (Ø 10)	AN300-KM10	30mm²	ø25	70	97

■ Plug (white)

Insert into unused cylinder ports and SUP/EXH ports. The minimum order quantity is 10 pieces. Order in multiples of 10.



Dimensions

Applicable fitting size ød	Model	А	L	D
4	KQ2P-04	16	32	6
6	KQ2P-06	18	35	8
8	KQ2P-08	20.5	39	10
10	KQ2P-10	22	43	12

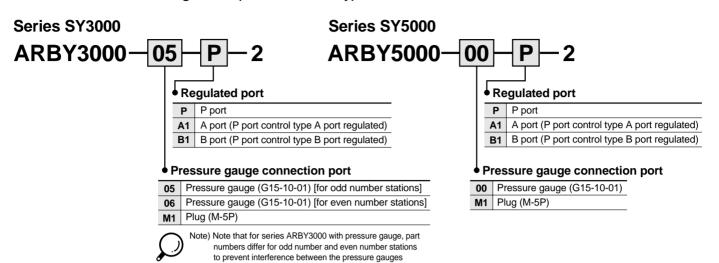
operated



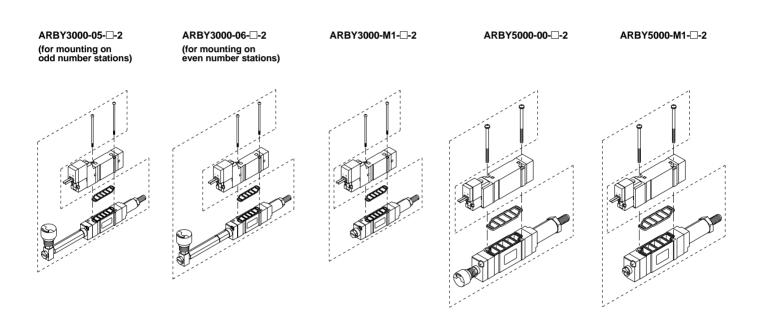
98



■ How to order interface regulators (SY3000/5000 only)



when mounted on the manifold.



Accessories

Series	Round head combination screw	Gasket	
ARBY3000	SY3000-23-10 (M2 x 36)	SX3000-57-4	
ARBY5000	M3 x 48.5 (Flat nickel plated)	SX5000-57-5	



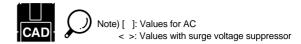
Mounting screw tightening torques

M2: 0.15N·m M3: 0.6N·m

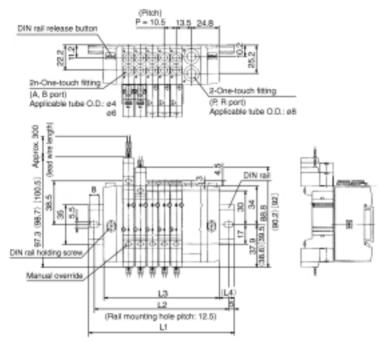


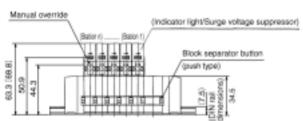


Series SY3000 Dimensions

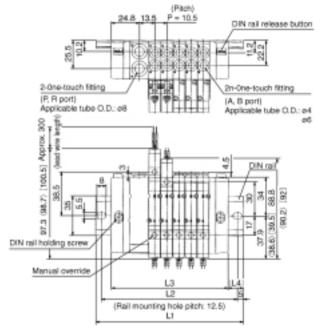


SS5Y3-45- Stations D- C4



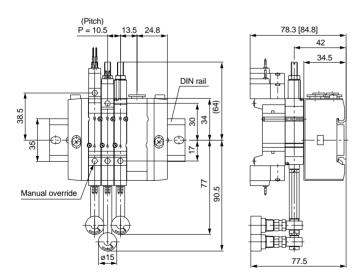


SS5Y3-45-Stations U-C4



Stations n	2	3	4	5	6	7	8	9	10
L1	98	110.5	123	135.5	148	148	160.5	173	185.5
L2	87.5	100	112.5	125	137.5	137.5	150	162.5	175
L3	70.5	81	91.5	102	112.5	123	133.5	144	154.5
L4	13.5	14.5	15.5	16.5	17.5	12.5	13.5	14.5	15.5

With interface regulator (with gauge)



CAD

101

SS5Y3-45-\(D \) SS5Y33, #1 (#1 + #7 + #8 + #9)





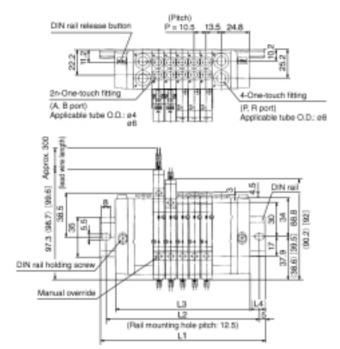
Note) []: Values for AC

< >: Values with surge voltage suppressor

Scale: 30%

SS5Y3-45-Stations B-C4

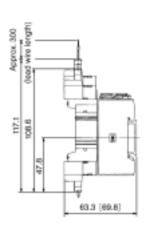
CAD



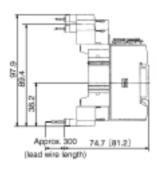
Stations n	2	3	4	5	6	7	8	9	10	
L1	110.5	123	135.5	148	160.5	173	185.5	185.5	198	
L2	100	112.5	125	137.5	150	162.5	175	175	187.5	
L3	87	97.5	108	118.5	129	139.5	150	160.5	171	
L4	11.5	12.5	13.5	14.5	15.5	16.5	17.5	12.5	13.5	
Stations n	11	12	13	14	15	16	17	18	19	20
L1	210.5	223	235.5	248	248	260.5	273	285.5	298	310.5
L2	200	212.5	225	237.5	237.5	250	262.5	275	287.5	300
L3	181.5	192	202.5	213	223.5	234	244.5	255	265.5	276
L4	14.5	15.5	16.5	17.5	12	13	14	15	16	17

SS5Y3-45-\(\B \) SS5Y33, #2 (#2 + #8 + #9 + #10)

L type plug connector



M type plug connector

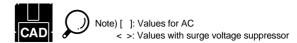


Order made

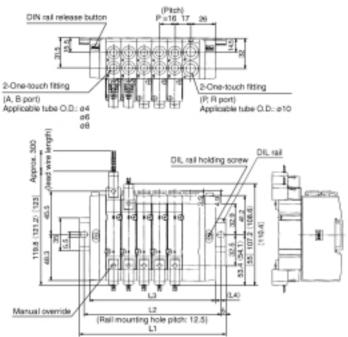
SMC

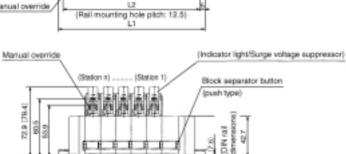


Series SY5000 Dimensions

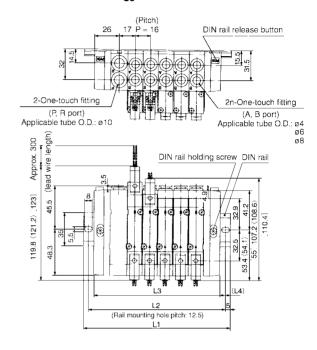


SS5Y5-45-Stations D-C4 C8



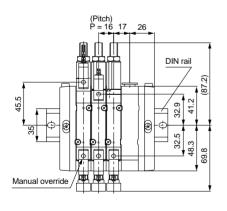


SS5Y5-45-Stations U-C4 C6 C8



Stations n	2	3	4	5	6	7	8	9	10
L1	110.5	135.5	148	160.5	173	198	210.5	223	235.5
L2	100	125	137.5	150	162.5	187.5	200	212.5	225
L3	84	100	116	132	148	164	180	196	212
L4	13	17.5	16	14	12.5	17	15	13.5	11.5

With interface regulator (with gauge)





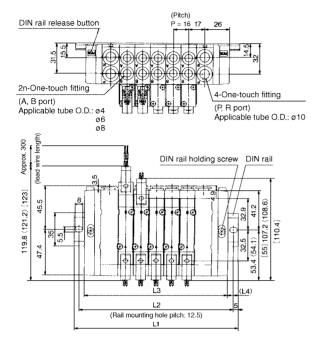


SS5Y5-45-\(\subseteq D \) SS5Y53, #1 (#1 + #8 + #9 + #10 + #11)



Scale: 25%

SS5Y5-45-Stations B- C6

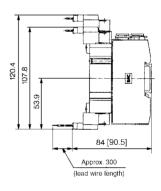


Stations n	2	3	4	5	6	7	8	9	10	
L1	135.5	148	160.5	185.5	198	210.5	223	248	260.5	
L2	125	137.5	150	175	187.5	200	212.5	237.5	250	
L3	102	118	134	150	166	182	198	214	230	
L4	16.5	15	13	17.5	16	14	12.5	17	15	
Stations n	11	12	13	14	15	16	17	18	19	20
L1	273	285.5	310.5	323	335.5	360.5	373	385.5	398	423
L2	262.5	275	300	312.5	325	350	362.5	375	387.5	412.5
L3	246	262	278	294	310	326	342	358	374	390
L4	13.5	11.5	16	14.5	12.5	17	15.5	13.5	12	16.5

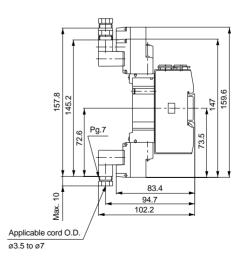
L type plug connector



M type plug connector



DIN terminal

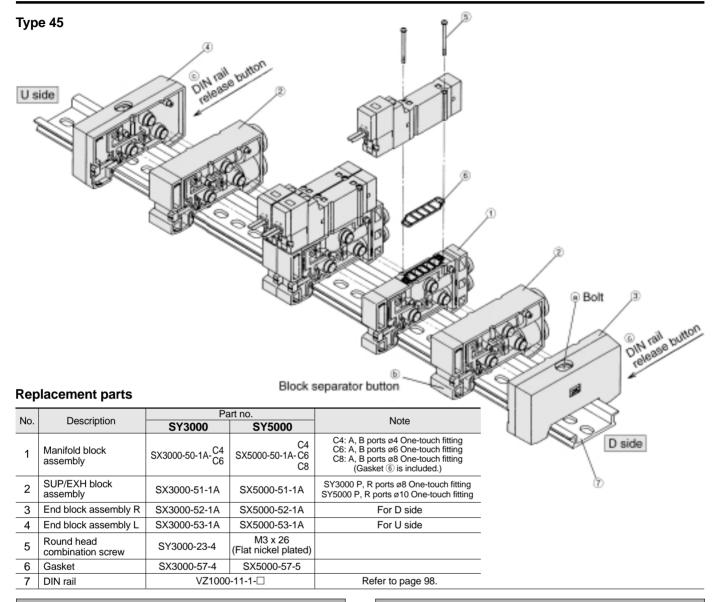


CAD

SS5Y5-45-\(\B-SS5Y53\), #2 (#2 + #9 + #10 + #11 + #12)

104

Exploded View of DIN Rail Manifold



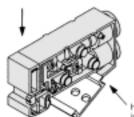
Manifold Base Expansion Stations can be added in a desired location.

- Loosen bolts (a) which hold the manifold base until it begins to turn idly. (While pressing down the DIN rail release buttons (c) at two locations, remove the manifold base from the DIN rail.)
- Press the manifold block assembly separator button (b) at the desired location until it locks, and then break the connection between block assemblies.
- Mount the manifold block assembly to be added onto the DIN rail as shown in Figure 1.
- Connect the manifold block assemblies by pressing them together until a click is heard, and secure them to the DIN rail with bolts (a).

 Caution (Tightening torque: 1.4N·m)

(To improve the sealing, after one end block has been secured, hold the block assemblies lightly while tightening the other end block.)

Figure 1. Block mounting



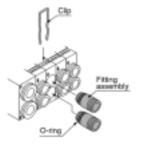


Note 1) When 10 or less stations are increased to 11 or more stations, add SUP/EXP block assemblies also.

Note 2) When disassembly and assembly are performed, insufficient connection of blocks or tightening of bolts (a) will cause air leakage. Be sure to confirm that there is no space between the manifold blocks and they are firmly secured on the DIN rail before supplying air. After supplying air, confirm that there is no air leakage.

Hook this part on the DIN rail and then press in the direction of the arrow until a click is heard.

How to Replace Fitting Assemblies



By replacing manifold block fitting assemblies on a type 45 manifold, the port size of the A and B ports can be changed.

To replace these parts, remove the clip with a flat head screw driver after the valve has been removed. Insert the fitting assemblies, and then reinsert the clip so that it does not protrude from the manifold block.

Fitting assembly part nos.

Port size	SY3000	SY5000		
ø4 One-touch fitting	VVQ1000-50A-C4	VVQ1000-51A-C4		
ø6 One-touch fitting	VVQ1000-50A-C6	VVQ1000-51A-C6		
ø8 One-touch fitting		VVQ1000-51A-C8		



Note 1) Fitting assemblies for P and R ports cannot be changed.

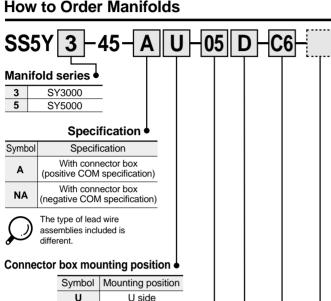
Note 2) Do not scratch or put foreign matter on the O-ring, as this will cause air leakage.



SY3000/5000 **Base Mounted Type Manifold** Stacking Type/DÍN Rail Mount **Connector Box**



How to Order Manifolds



Stations •

Symbol	Stations	Note		
02 2 stations		l la ta 4C aalaasida		
:	:	Up to 16 solenoids applicable		
16	16 stations	арріісавіє		

ח

SUP/EXH block assembly mounting position

Symbol	Mounting position	Applicable stations		
U	U side	2 to 10		
D	D side	21010		
В	Both sides	2 to 16		
M*	Special specification			

D side

* For special specifications, order separately on a manifold specification sheet.

A/B port size

SY3000

	=			
Symbol	Port size			
C4	ø4 One-touch fitting			
C6	ø6 One-touch fitting			
M*	Mixed			

SY5000

Symbol	Port size	
C4 ø4 One-touch fittir		
C6	ø6 One-touch fitting	
C8	ø8 One-touch fitting	
M*	Mixed	

* For mixed specifications, order separately on a manifold specification sheet.

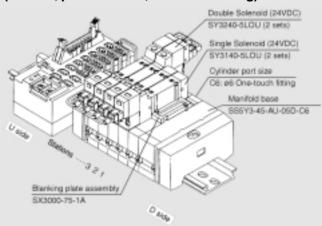
Option 4

When a DIN rail longer than the specified stations is necessary, indicate the number of required stations. (Max. 20 stations)

Refer to page 183 regarding external pilot specifications and built-in silencer types.

How to Order Manifold Assemblies (Example)





SS5Y3-45-AU-05D-C61 set (Type 45, 5 station manifold base * SX3000-75-1A 1 set (Blanking plate assembly part no.)

- * SY3140-5LOU 2 sets (Single solenoid part no.)
- * SY3240-5LOU 2 sets (Double solenoid part no.)
- To order valves and options mounted onto the manifold at the factory, list the valve/option with an asterisk (*) in front of each part number.

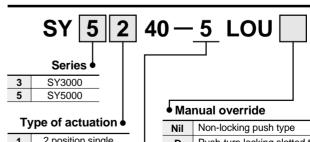
Valves are assembled from the D side regardless of the mounting position of the connector box. Add the valve and option part numbers in order starting from the first station on the D side.

When entry of part numbers becomes complicated, indicate on a manifold specification sheet

Also, SS5Y \(^2_3-45-A^0_b\) - \(\subseteq \s solenoid valves. When only the base unit is required, by listing the manifold part number on page 95 (specify the number which is 3 stations more than the required stations for the option at the end of S5Y 5 -45- \square \square -C \square - \square), the connector box part number VZ3000-106-1A, and the rail stopper part number TXE1-SMC, the connector box can be mounted on the U side. (In this case, please note that dimensions L1 and L2 on pages 111 and 112 may vary.) Refer to page 113 regarding other parts.

(Manifold Specification Sheet on pages 203 and 204)

How to Order Valves



1)	Type of actuation •					
1	2 position single					
2	2 position double					
3	3 position closed center					
4	3 position exhaust center					
5	3 position pressure center					

5

Rated voltage 24VDC

Nil	Non-locking push type
D	Push-turn locking slotted type
E	Push-turn locking lever type







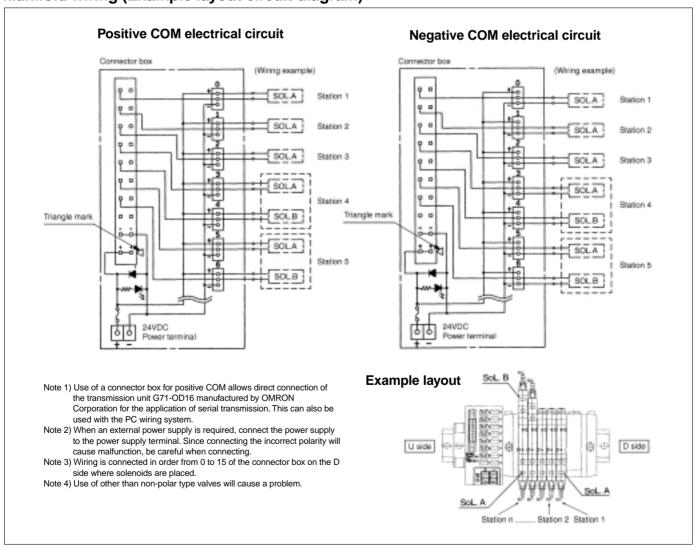
Manifold specifications

Model		SS5Y3-45-AA	SS5Y5-45- ^A		
Applicable valve		SY3□40	SY5□40		
Manifold type		Stacking ty	pe/DIN rail		
P (SUP)/R (EXH) method	Common	SUP/EXH		
Valve stations		2 to 16 stati	ons Notes 1, 2)		
A, B port	Location	Ba	se		
specifications	Direction	Si	de		
	P, R port	C8 (ø8 One-touch fitting)	C10 (ø10 One-touch fitting)		
Port size	A, B port	C4 (ø4 One-touch fitting) C6 (ø6 One-touch fitting)	C4 (ø4 One-touch fitting) C6 (ø6 One-touch fitting) C8 (ø8 One-touch fitting)		
Valve effective are mm² (Cv factor)	ea Note 3)	C6: P to A/B 4.68 (0.26) A/B to R 4.68 (0.26)	C8: P to A/B 12.6 (0.7) A/B to R 12.6 (0.7)		
Manifold base weight W (g) n: Number of stations		For 2 to 10 stations: W = 26n + 207 For 11 to 20 stations: W = 26n + 229	For 2 to 10 stations: W = 52n + 245 For 11 to 16 stations: W = 52n + 279		
Applicable flat ribbon cable	connector	Flat ribbon cable connector, Socket: 20 pin MIL type With strain relief, MIL-C-83503 conformity			
Wiring specificati	ions	Positive COM specification (type 45-A), Negative COM specification (type 45-NA)			



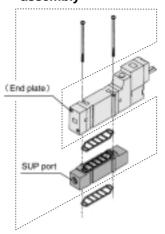
- Note 1) For 11 stations or more, supply pressure to P port on both sides and exhaust from R port on both sides.
- Note 2) Due to restrictions depending on the number of solenoids, refer to the ordering procedures.
- Note 3) Value when manifold base (5 stations) is mounted, with single action 2 position type.

Manifold wiring (Example layout circuit diagram)



Manifold Options

Individual SUP spacer assembly

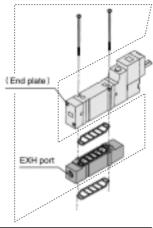


Series	Assembly part no.	Port size
SY3000	SY3000-38-2A	M5 x 0.8
SY5000	SY5000-38-2A	Rc 1/8



Note) The SUP port can be on the lead wire side or end plate side. (It is as shown above when shipped already assembled.)

■ Individual EXH spacer assembly



Series	Series Assembly part no.				
SY3000	SY3000-39-2A	M5 x 0.8			
SY5000	SY5000-39-2A	Rc 1/8			



Note) The EXH port can be on the lead wire side or end plate side. (It is as shown above when shipped already assembled.)

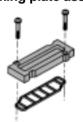
⊈\Caution

M2: 0.15N·m

M3: 0.6N·m M4: 1.4N·m

Mounting screw tightening torques

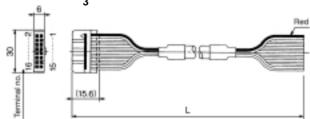
■ Blanking plate assembly



Series	Assembly part no.
SY3000	SX3000-75-1A
SY5000	SX5000-76-1A

■ Cable assembly





Flat ribbon cable connector assembly

Cable length (L)		Assembly part no.	Note		
	1.5m	AXT100-FC20-1	20 core coble		
	3m	AXT100-FC20-2	20 core cable x 22AWG		
	5m	AXT100-FC20-3	X ZZAVVO		



* For other commercial connectors, use a 20 pin type with strain relief conforming to MIL-C-83503.

Connector manufacturer examples

- Sumitomo/3-M Limited
- Fujitsu, Ltd.
- Japan Aviation Electronics Industry, Ltd.
- J.S.T. Mfg. Co., Ltd.

■ SUP block disc

By installing a SUP block disc in the pressure supply passage of the manifold base, two or more different pressures, high or low, can be supplied to one manifold.



Series	Part no.
SY3000	SX3000-77-1A
SY5000	SX5000-77-1A

■ EXH block disc

By installing an EXH block disc in the exhaust passage of the manifold base, the passage can be divided so that the exhaust from one valve will not affect other valves. (Two block discs are required to block both EXH



Series	Part no.
SY3000	SX3000-77-1A
SY5000	SX5000-77-1A

■ Labels for block disc

Labels are applied to blocks with SUP and EXH block discs for external confirmation of blocked passages. (3 labels per package)

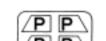
VZ3000-123-1A

SUP block disc label





EXH block disc label



SUP/EXH block disc label

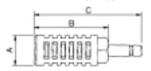




* When block discs are ordered with manifolds using a manifold specification sheet, block disc labels are already applied where block discs are installed at the time of shipment.

■ Silencer with One-touch fitting

Can be attached with one touch to the R (EXH) port of the manifold.

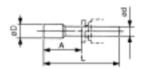


Series	Model	Effective area	Α	В	С
SY3000 (Ø8)	AN203-KM8	14mm²	ø16	26	51
SVE000 (~10)	AN200-KM10	26mm²	ø22	53.8	80.8
SY5000 (Ø10)	AN300-KM10	30mm²	ø25	70	97

■ Plug (white)

Insert into unused cylinder ports and SUP/EXH ports.

The minimum order quantity is 10 pieces. Order in multiples of 10.



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
10	KQ2P-10	22	43	12

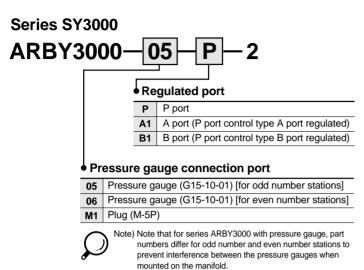
Precautions

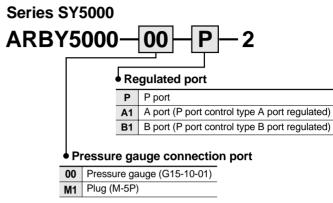


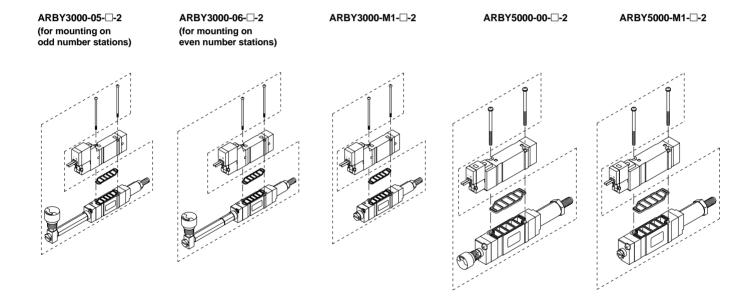


Manifold Options

■ How to order interface regulators (SY3000/5000 only)







Accessories

Series	Round head combination screw	Gasket
ARBY3000	SY3000-23-10 (M2 x 36)	SX3000-57-4
ARBY5000	M3 x 48.5 (Flat nickel plated)	SX5000-57-5



Mounting screw tightening torques

M2: 0.15N·m M3: 0.6N·m



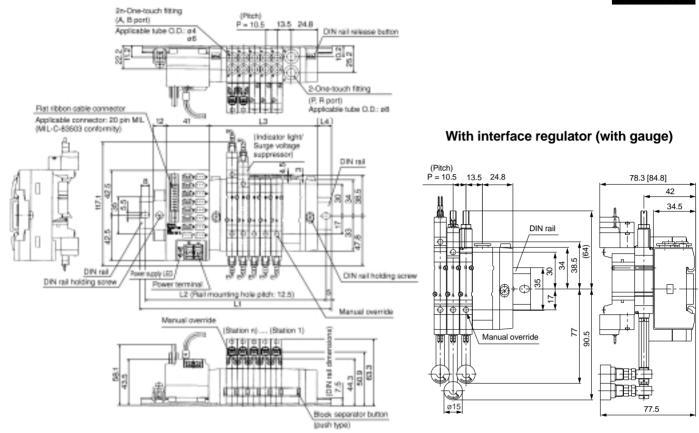


Series SY3000 Dimensions CAD

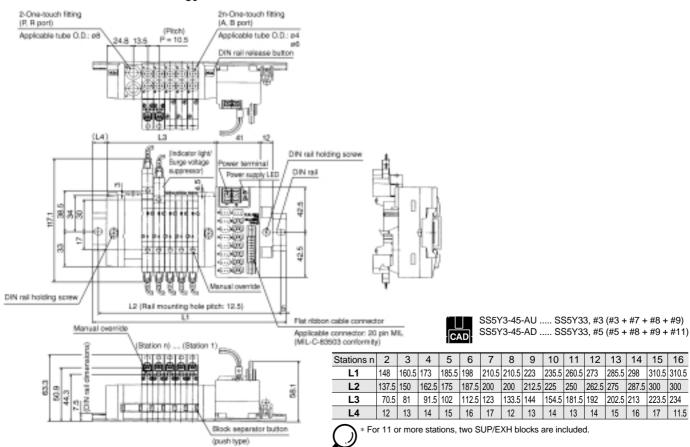


SS5Y3-45-AU-Stations D-C4

Scale: 30%

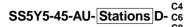


SS5Y3-45-AD-Stations U-C4

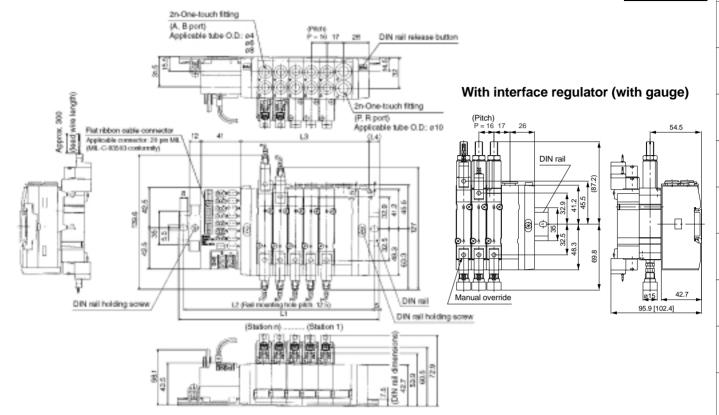


Single valve

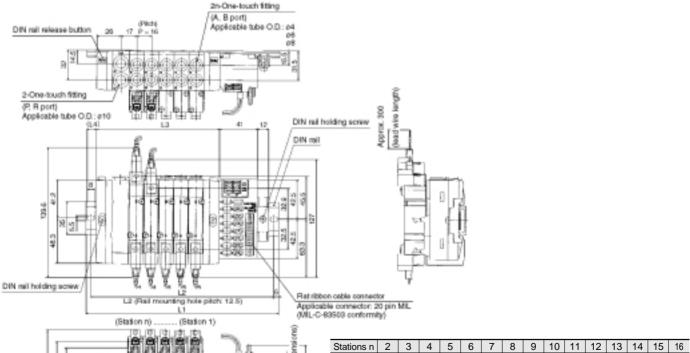




Scale: 30%



SS5Y5-45-AD-Stations U-C4 C8 C8



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L1	160.5	185.5	198	210.5	235.5	248	260.5	273	298	323	348	360.5	373	398	410.5
L2	150	175	187.5	200	225	237.5	250	262.5	287.5	312.5	337.5	350	362.5	387.5	400
L3	84	100	116	132	148	164	180	196	212	246	262	278	294	310	326
L4	11.5	16	14.5	12.5	17	15.5	13.5	12	16.5	12	16.5	14.5	13	17.5	15.5

SS5Y5-45-AU SS5Y53, #3 (#3 + #5 + #9 + #10 + #11) SS5Y5-45-AD SS5Y53, #5 (#5 + #9 + #10 + #11 + #13)



* For 11 or more stations, two SUP/EXH blocks are included.

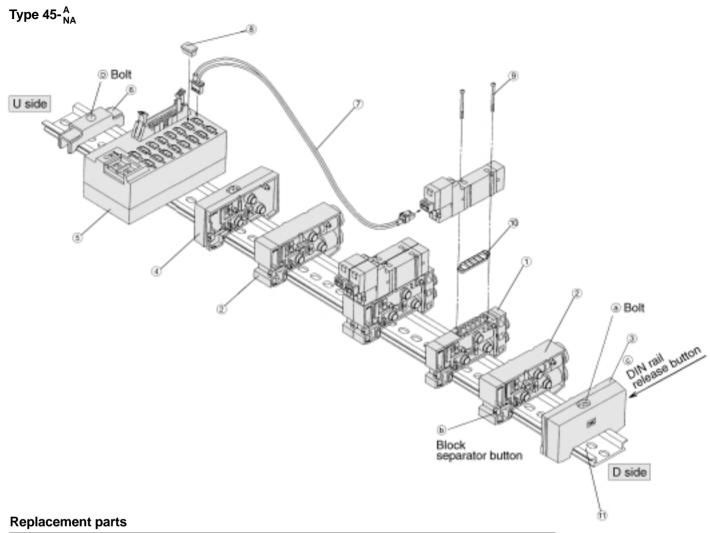
SMC

operated Order made

Precautions



Exploded View of DIN Rail Manifold



Nia	Description	Par	t no.	Note
No.	Description	SY3000	SY5000	Note
1	Manifold block assembly	SX3000-50-1A-C4 C6	C4 SX5000-50-1A-C6 C8	C4: A, B ports ø4 One-touch fitting C6: A, B ports ø6 One-touch fitting C8: A, B ports ø8 One-touch fitting (Gasket ① is included.)
2	SUP/EXH block assembly	SX3000-51-1A	SX5000-51-1A	P, R ports SY3000 Ø8 One-touch fitting P, R ports SY5000 Ø10 One-touch fitting
3	End block assembly R	SX3000-52-1A	SX5000-52-1A	For D side
4	End block assembly L	SX3000-53-1A	SX5000-53-1A	For U side
5	Connector box	VZ3000	-106-1A	24VDC only
6	Rail stopper	TXE1	-SMC	Made by Kasuga Electronic Works, Ltd.
	Connector assembly	SY3000-43-1A-□	SY3000-43-2A-□	Positive COM Type D, 2 to 8 stations Type U, 9 to 16 stations
7		SY3000-43-2A-□	SY3000-43-3A-□	Positive COM Type D, 9 to 16 stations Type U, 2 to 8 stations
,		SY3000-43-1NA-□	SY3000-43-2NA-□	Negative COM Type D, 2 to 8 stations Type U, 9 to 16 stations
		SY3000-43-2NA-□	SY3000-43-3NA-□	Negative COM Type D, 9 to 16 stations Type U, 2 to 8 stations
8	Dust cap	VZ3000-63-2		
9	Round head combination screw	w SY3000-23-4 M3 x 26 (Flat nickel plat		
10	Gasket	SX3000-57-4	SX5000-57-5	
11	DIN rail	VZ1000	-11-1-□	Refer to page 98.

Manifold Base Expansion

Stations can be added in a desired location.

Loosen bolts (a) which hold the manifold base until it begins to turn idly. (While pressing down the DIN rail release buttons (c) at two locations, remove the manifold base from the DIN rail.)

Press the manifold block assembly separator button (b) at the desired location until it locks, and then break the connection between block assemblies.

Mount the manifold block assembly to be added onto the DIN rail as 3 shown in Figure 1.

Connect the manifold block assemblies by pressing them together until a click is heard, and secure them to the DIN rail with bolts (a). **△ Caution** (Tightening torque: 1.4N·m)

(To improve the sealing, after one end block has been secured, hold the block assemblies lightly while tightening the other end block.)

To remove the connector box from the DIN rail, loosen the rail stopper bolt (D) and remove it. To remount it, press it against the connector block and tighten bolt (D).



Note 1) When 10 or less stations are increased to 11 or more stations, add SUP/EXP block assemblies also

Note 2) When disassembly and assembly are performed, insufficient connection of blocks or tightening of bolts (a) will cause air leakage. Be sure to confirm that there is no space between the manifold blocks and they are firmly secured on the DIN rail before supplying air. After supplying air, confirm that there is no air leakage.

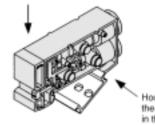
Note 3) One connector assembly is required for each solenoid.

Also, if a number is required for the connector assembly mark tube, indicate the number at the end of the part number. (Numbers 0 to 15 are available for mark tube numbering.)

Example) Positive COM specification, type D for 2 to 8 stations, with number 10 SY3000-43-1A-10

Figure 1. Block mounting

Base Mounted Type



Hook this part on the DIN rail and press in the direction of the arrow until a click is heard.

How to Replace Fitting Assembly

By replacing manifold block fitting assemblies on a type 45 manifold, the port size of the A and B ports can be changed.

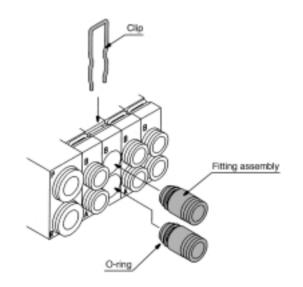
To replace these parts, remove the clip with a flat head screw driver after the valve has been removed. Insert the fitting assemblies, and then reinsert the clip so that it does not protrude from the manifold block.

Fitting assembly part nos.

Port size	SY3000	SY5000
ø4 One-touch fitting	VVQ1000-50A-C4	VVQ1000-51A-C4
ø6 One-touch fitting	VVQ1000-50A-C6	VVQ1000-51A-C6
ø8 One-touch fitting		VVQ1000-51A-C8

Note 1) Fitting assemblies for P and R ports cannot be changed.

Note 2) Do not scratch or put foreign matter on the O-ring, as this will cause air



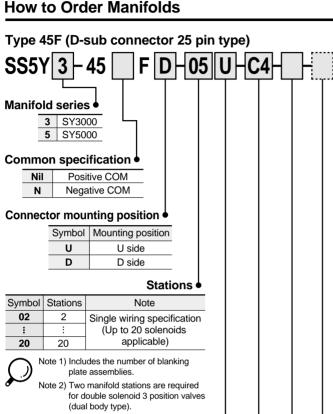




SY3000/5000 **Base Mounted Type Manifold** Stacking Type/DIN Rail Mount Plug-in



How to Order Manifolds



SUP/EXH block assembly mounting position

SY5000

Symbol	Mounting position	Applicable stations		
U	U side	2 to 10		
D	D side	2 to 10		
В	Both sides	2 to 20		
M*	Special specifications			

^{*} For special specifications, order separately on a manifold specification sheet.

A/B port size

SY3000

Symbol	Port size
C4 Ø4 One-touch fitting	
C6 ø6 One-touch fitti	
M*	Mixed

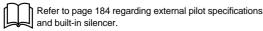
Symbol	Port size
C4	ø4 One-touch fitting
C6	ø6 One-touch fitting
C8	ø8 One-touch fitting
М*	Mixed

^{*} For mixed specifications, order separately on a manifold specification sheet.

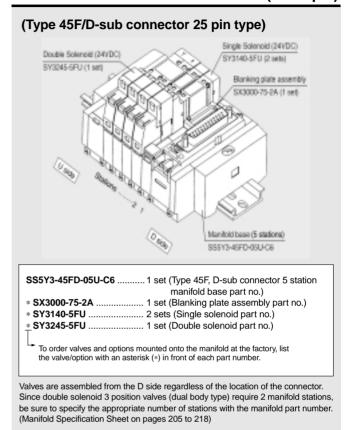
Voltage specification •

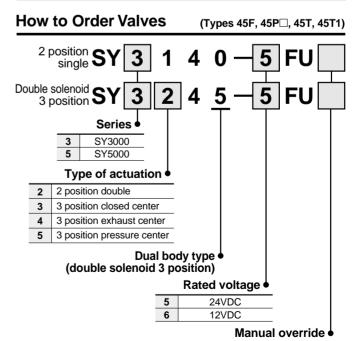
Nil	24VDC	
12V	12VDC	
	_	

When a DIN rail longer than the specified stations is necessary, indicate the number of required stations. (Max. 20 stations)



How to Order Manifold Assemblies (Example)



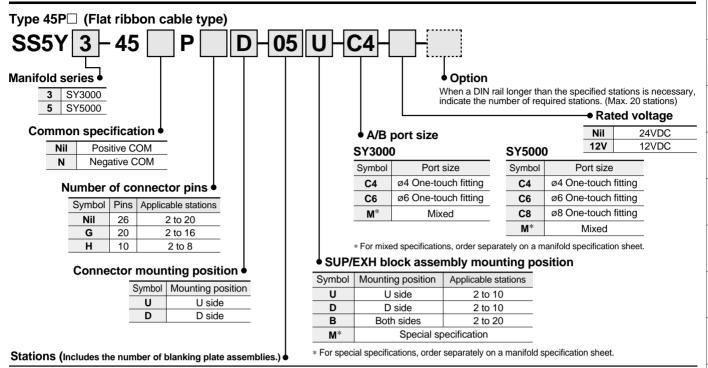


Nil	Non-locking push type
D	Push-turn locking slotted type
E	Push-turn locking lever type



Type Type Type

How to Order Manifolds



26 pin connector (P)

Symbol	Stations	Note
02	2	Single wiring an elifaction
:	:	Single wiring specification (Up to 20 solenoids applicable)
20	20	(Op to 20 soleriolds applicable)

20 pin connector (PG)

Symbol	Stations	Note
02	2	Cinale wiring apositiontion
:	:	Single wiring specification (Up to 16 solenoids applicable)
20	16	(Op to 10 soleriolds applicable)

10 pin connector (PH)

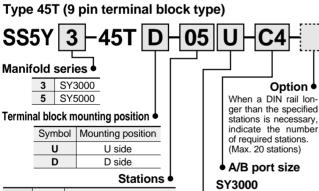
Symbol	Stations	Note
02	2	Single wiring appointantion
:	:	Single wiring specification (Up to 8 solenoids applicable)
08	8	(Op to o soleriolds applicable)

Note) Two manifold stations are required for double solenoid 3 position valves (dual body type).

Symbol

SY5000

M*



Symbol	Stations	Note
02	2	Single wiring specification
	:	(Up to 8 solenoids
08	8	applicable)

Note 1) Includes the number of blanking

Note 2) Two manifold stations are required for double solenoid 3 position valves (dual body type).

SUP/EXH block assembly mounting position

Symbol	Mounting position	Applicable stations	
U	U side	2 to 8	
D	D side	2 to 8	
В	Both sides 2 to 8		
M*	Special specifications		

C4 ø4 One-touch fitting ø6 One-touch fitting C6 M* Mixed

Port size

Symbol Port size C4 ø4 One-touch fitting C6 ø6 One-touch fitting C8 ø8 One-touch fitting

 For mixed specifications, order separately on a manifold specifica tion sheet

Mixed

Type 45T1 (18 pin terminal block type)

		5Y 3	-45T1 D	15	B	-C	4-[
Tei	3 5 rmina	SY3000 SY5000	unting position •		ger th	a DIN nan the	Option N rail lo	n- ed
		Symbol	Mounting position		indica		number	

LI side D D side

Stations

3 position valves (dual body

Symbol	Stations	Note					
02	2	Cinale wiring enecification					
•		Single wiring specification (Up to17 solenoids applicable)					
17	17	(Op 1017 Soleriolds applicable)					
$\overline{}$	Note 1) Includes the number of						

blanking plate assemblies Note 2) Two manifold stations are required for double solenoid

SUP/EXH block assembly mounting position

	•	• •		
Symbol	Mounting position	Applicable stations		
U	U side	2 to 10		
D	D side	2 to 10		
В	Both sides 2 to 17			
M*	Special specifications			
	U D B	D D side B Both sides		

^{*} For special specifications, order separately on a manifold specification sheet.

(Max. 20 stations)

A/B port size SY3000

Symbol	Port size
C4	ø4 One-touch fitting
C6	ø6 One-touch fitting
M*	Mixed

SY5000

Symbol	Port size	
C4	ø4 One-touch fitting	
C6	ø6 One-touch fitting	
C8	ø8 One-touch fitting	
M*	Mixed	

For mixed specifications, order separately on a manifold specification sheet.

* For special specifications, order separately on a manifold specification sheet.



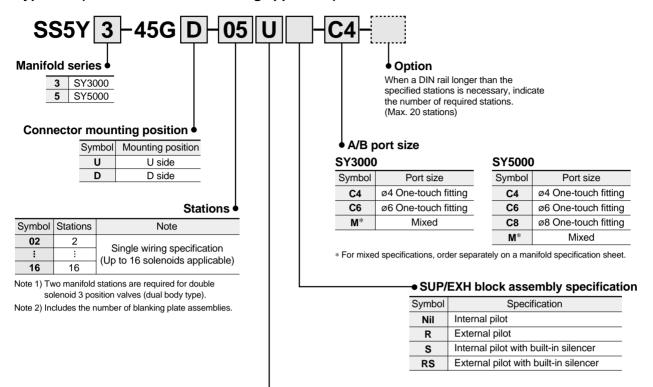
Note) The terminal block (type 45T) manifold has no common polarity. It can be used for both positive and negative COM.

Precautions



How to Order Manifolds

Type 45G (Flat ribbon cable/PC wiring applicable)



SUP/EXH block assembly mounting position

Symbol	Mounting position	Applicable stations	
U	U side	2 to 10	
D	D side	2 to 10	
В	Both sides 2 to 16		
M*	Special specifications		

^{*} For special specifications, order separately on a manifold specification sheet.

D-sub connector type Flat ribbon cab

Manifold specifications

	Model		D-sub connector type	Flat ribb	on cable ty	pe 45P□	Terminal I	olock type	Flat ribbon cable PC wiring applicable	
				45F	45P	45PG	45PH	45T	45T1	45G
	Manifold ty	pe					Plug-in type			
	P (SUP)/R	(EXH) me	ethod			Con	nmon SUP/E	XH		
	Valve stati	ons ^{Notes 1}	, 2)	2 to	20	2 to 16	2 t	o 8	2 to 17	2 to 16
	A, B port spe	ocifications	Location				Base			
е	A, D poit spe	·	Direction				Side			
		P, R port	SY3000			C8 (ø8	One-touch	fitting)		
	Port size	, it poit	SY5000			C10 (ø1	0 One-touch	fitting)		
	FUIT SIZE	A D nort	SY3000	00 C4 (ø4 One-touch fitting)/C6 (ø6 One-touch fitting)					_	
A, B port SY5000 C4 (ø4 One-touch fitting)/C6 (ø6 One-touch fitting)/C8 (ø8 One-touch fit					fitting)					
	Valve effective	area Note 3)	SY3000	C6: P to A/B 4.68 (0.26), A/B to R 4.68 (0.26)						
	mm² (Cv facto	r)	SY5000		C8: P to A/B 12.6 (0.7), A/B to R 12.6 (0.7)					
ble	Applicable	connecto	r	D-sub connector Conforming to MIL-C-24308 JIS-X-5101	Flat ribbon cable connector Socket: 26 pin MIL type With strain relief Conforming to MIL-C-83503	Flat ribbon cable connector Socket: 20 pin MIL type With strain relief Conforming to MIL-C-83503	Flat ribbon cable connector Socket: 10 pin MIL type With strain relief Conforming to MIL-C-83503	Terminal block (M3) 9 pins	Terminal block (M3) 18 pins	Flat ribbon cable connector Socket: 20 pin MIL type With strain relief Conforming to MIL-C-83503
	Internal wi	ring		Positive COM (45□), Negative COM (45N□) Common positive and negative COM Positive COM				Positive COM		
•	Manifold bas	se weight	SY3000	For 2 to 10 stations: W = 26n + 172						
•	n: Number of (For D-sub of		SY5000	For 2 to 10 stations: W = 54n + 227			.6}			



Note 1) For 11 stations or more, supply pressure to P port on both sides and exhaust from R port on both sides.

Note 2) Due to restrictions depending on the number of solenoids, refer to the ordering procedures.

Note 3) Value when manifold base (5 stations) is mounted, with single action 2 position type.

Manifold Options

Note: Short cap

■ Blanking plate assembly ■ SUP block disc

Terminal block

By installing a SUP block disc in the pressure supply passage of the manifold base, two or more different pressures, high or low, can be supplied to one manifold.



Part no.
SX3000-77-1A
SX5000-77-1A

By installing an EXH block disc in the exhaust passage of the manifold base, the passage can be divided so that the exhaust from one valve will not affect another valve. (Two block discs are required to block both EXH ports.)



Series	Part no.	
SY3000	SX3000-77-1A	
SY5000	SX5000-77-1A	

Series	Part no.
SY3000	SX3000-77-1A
SY5000	SX5000-77-1A

■ EXH block disc



Series	Part no.	
SY3000	SX3000-77-1A	
SY5000	SX5000-77-1A	

■ Labels for block disc

Labels are applied to blocks with SUP and EXH block discs for external confirmation of blocked passages. (3 labels per package)

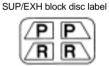
VZ3000-123-1A (SY3000/5000 common)

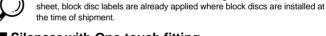
SUP block disc label EXH block disc label





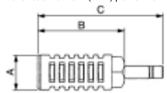
* When block discs are ordered with manifolds using a manifold specification





■ Silencer with One-touch fitting

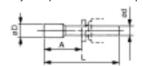
Can be attached with one touch to the R (EXH) port of the manifold.



Series	Model	Effective area	Α	В	С
SY3000 (Ø8)	AN203-KM8	14mm²	ø16	26	51
SY5000 (Ø10)	AN200-KM10	26mm²	ø22	53.8	80.8
313000 (Ø10)	AN300-KM10	30mm²	ø25	70	97

■ Plug (white)

Insert into unused cylinder ports and SUP/EXH ports. The minimum order quantity is 10 pieces. Order in multiples of 10.



Dimensions

Applicable fitting size ød	Model	А	L	D
4	KQ2P-04	16	32	6
6	KQ2P-06	18	35	8
8	KQ2P-08	20.5	39	10
10	KQ2P-10	22	43	12

Caution

Mounting screw tightening torques

Assembly part no.

SX3000-75-2A

SX5000-76-2A

are required for double

valves (dual body type).

solenoid 3 position

Note 1) When mounting a blanking plate, be sure to mount a short cap Note 2) Two manifold stations

M2: 0.15N·m M3: 0.6N·m M4: 1.4N·m

Series

SY3000

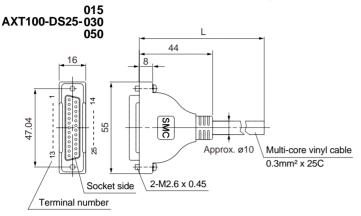
SY5000

SMC

118

Manifold Options

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



D-sub connector cable assembly

Cable length (L)	Assembly part no.	Note
1.5m	AXT100-DS25-015	0Fblo
3m	AXT100-DS25-030	25 core cable x 24AWG
5m	AXT100-DS25-050	X Z4AVVG



* For other commercial connectors, use a 25 pin type female connector conforming to MIL-C-24308.

Electrical characteristics

Item	Characteristics
Conductor resistance Ω/km, 20°C	65 or less
Withstand voltage V, 1min., AC	1000
Insulation resistance MΩkm, 20°C	5 or more

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

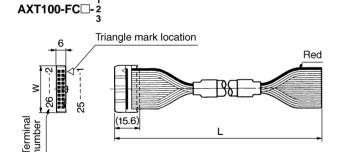
D-sub connector cable assembly wire color by terminal number

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

Connector manufacturer examples

- Hirose Electric Company
- Fujitsu, Ltd.
- Japan Aviation Electronics Industry, Ltd.
- J.S.T. Mfg. Co., Ltd.

■ Flat ribbon cable type/Cable assembly



Flat ribon 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



* For other commercial connectors, use a type with strain relief conforming to MIL-C-83503.

Connector manufacturer examples

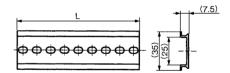
- Hirose Electric Company
- Sumitomo/3-M Limited
- Fujitsu, Ltd.
- Japan Aviation Electronics Industry, Ltd.
- J.S.T. Mfg. Co., Ltd.

■ DIN rail dimensions

VZ1000 – 11 – 1 – 📮

Refer to the table below for dimension L.

* Specify a number inside ☐ from the DIN rail dimension table below.



No.	0	1	2	3	4	5	6	7	8	9	10
Dimension L	98	110.5	123	135.5	148	160.5	173	185.5	198	210.5	223
No.	11	12	13	14	15	16	17	18	19	20	21
Dimension L	235.5	248	260.5	273	285.5	298	310.5	323	335.5	348	360.5
No.	22	23	24	25	26	27	28	29	30	31	32
Dimension L	373	385.5	398	410.5	423	435.5	448	460.5	473	485.5	498
No.	33	34	35	36	37	38	39	40	41	42	43
Dimension L	510.5	523	535.5	548	560.5	573	585.5	598	610.5	623	635.5
No.	44	45	46	47	48	49	50	51	52	53	54
Dimension L	648	660.5	673	685.5	698	710.5	723	735.5	748	760.5	773
No.	55	56	57	58	59	60	61	62	63	64	65
Dimension L	785.5	798	810.5	823	835.5	848	860.5	873	885.5	898	910.5
No.	66	67	68	69	70	71					
Dimension L	923	935.5	948	960.5	973	985.5					

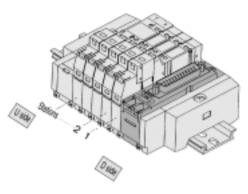


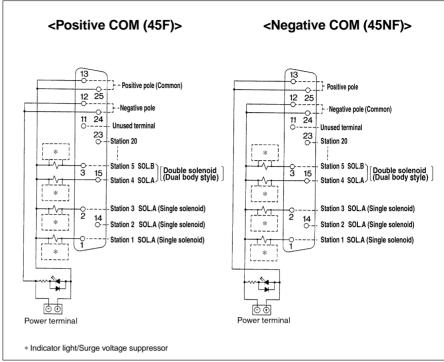
Note) Refer to dimension L1 on pages starting with 125 for lengths that correspond to the number of manifold stations.

Manifold Internal Wiring

45(N)F/D-sub Connector Type

Use of a D-sub connector for electrical connection helps to achieve simplification and labor savings in connection procedures. Also, connectors conforming to MIL standards are used for wide interchangeability.





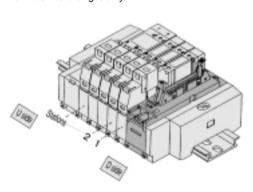
Note 1) When an external power supply is required, connect the power supply to the power terminal.

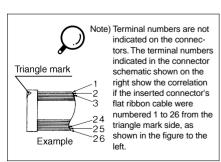
Note 2) A maximum of 20 manifold stations and 20 solenoids can be used. (Contact SMC if more than these quantities are required.)

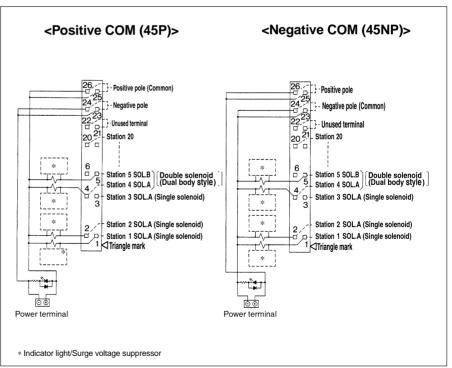
Note 3) Valves are numbered from the D side regardless of the mounting position of the connector.

45(N)P/Flat Ribbon Cable Type (26 Pins)

Use of a flat ribbon cable connector for electrical connection helps to achieve simplification and labor savings in connection procedures. Also, connectors conforming to MIL standards are used for wide interchangeability.







Note 1) When an external power supply is required, connect the power supply to the power terminal.

Note 2) A maximum of 20 manifold stations and 20 solenoids can be used. (Contact SMC if more than these quantities are required.)

Note 3) Valves are numbered from the D side regardless of the mounting position of the connector.

operated

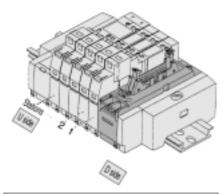
Order made

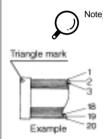
Precautions



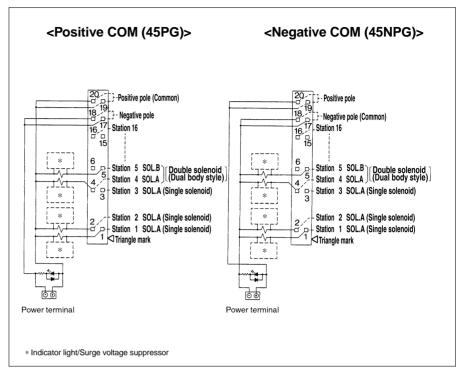
45(N)PG/Flat Ribbon Cable Type (20 Pins)

Use of a flat ribbon cable connector for electrical connection helps to achieve simplification and labor savings in connection procedures. Also, connectors conforming to MIL standards are used for wide interchangeability.





Note) Terminal numbers are not indicated on the connectors. The terminal numbers indicated in the connector schematic shown on the right show the correlation if the inserted connector's flat ribbon cable were numbered 1 to 20 from the triangle mark side, as shown in the figure to the left.



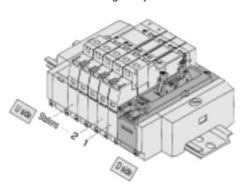
Note 1) When an external power supply is required, connect the power supply to the power terminal

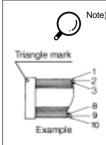
Note 2) A maximum of 16 manifold stations and 16 solenoids can be used. (Contact SMC if more than these quantities are required.)

Note 3) Valves are numbered from the D side regardless of the mounting position of the connector.

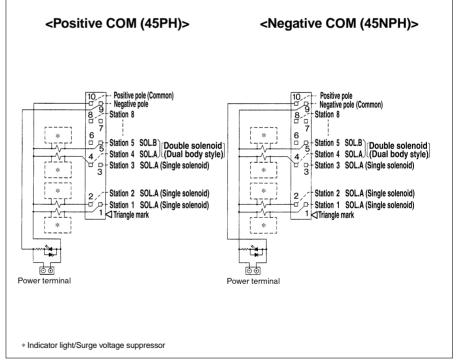
45(N)PH/Flat Ribbon Cable Type (10 Pins)

Use of a flat ribbon cable connector for electrical connection helps to achieve simplification and labor savings in connection procedures. Also, connectors conforming to MIL standards are used for wide interchangeability.





Note) Terminal numbers are not indicated on the connectors. The terminal numbers indicated in the connector schematic shown on the right show the correlation if the inserted connector's flat ribbon cable were numbered 1 to 10 from the triangle mark side, as shown in the figure to the left.



Note 1) When an external power supply is required, connect the power supply to the power terminal.

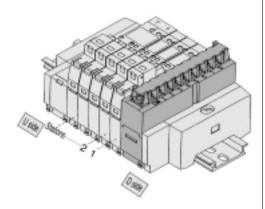
Note 2) A maximum of 8 manifold stations and 8 solenoids can be used. (Contact SMC if more than these quantities are required.)

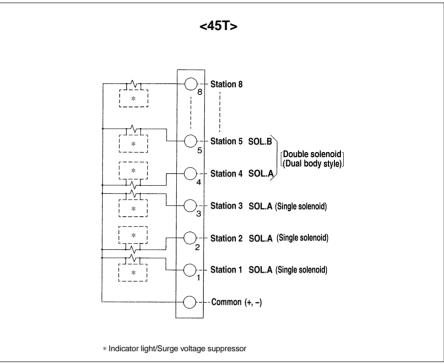
Note 3) Valves are numbered from the D side regardless of the mounting position of the connector.



45T/Terminal Block Type

Use of a terminal block type for electrical connection allows direct connection without lead wire work.



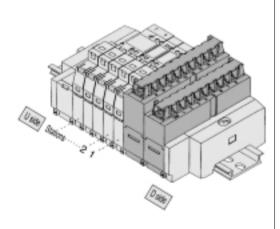


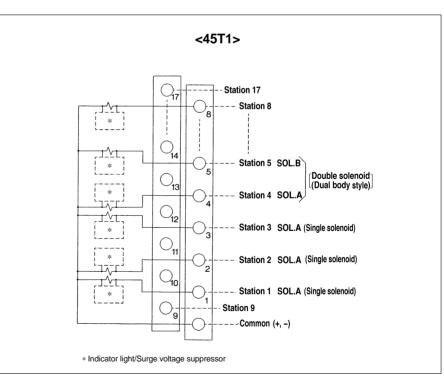
Note 1) A maximum of 8 manifold stations and 8 solenoids can be used. (Contact SMC if more than these quantities are required.)

Note 2) Valves are numbered from the D side regardless of the mounting position of the connector.

Note 3) Since the COM wiring does not have polarity, use a positive power supply for the positive COM specification and a negative power supply for the negative COM specification.

45T1/Terminal Block Type





Note 1) A maximum of 17 manifold stations and 17 solenoids can be used. (Contact SMC if more than these quantities are required.)

Note 2) Valves are numbered from the D side regardless of the mounting position of the connector.

Note 3) Since the COM wiring does not have polarity, use a positive power supply for the positive COM specification and a negative power supply for the negative COM specification.

operated

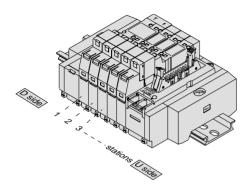


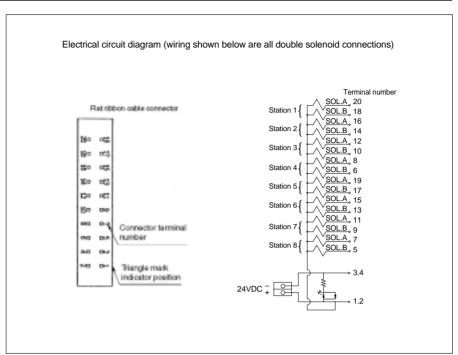


Manifold Internal Wiring

45G/Flat Ribbon Cable Type (PC wiring applicable)

A 20 pin flat ribbon cable connector type manifold that can be used with the PC wiring system.





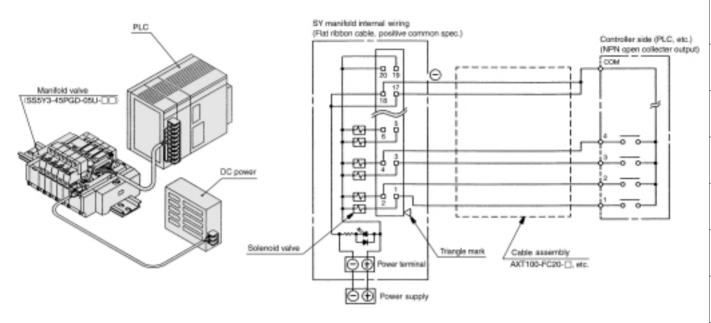
Note 1) A maximum of 16 manifold stations and 16 solenoids can be used. (Contact SMC if more than these quantities are required.)

Note 2) Valves are numbered from the D side regardless of the mounting position of the connector.

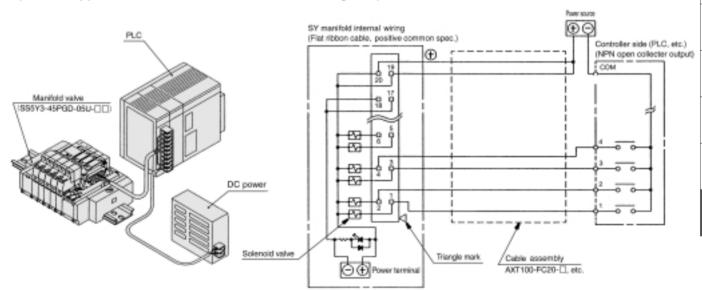
Refer to the separate catalog CAT.ES02-20A for details regarding the PC wiring system.

Series SY plug-in type manifolds are equipped with a power terminal as standard. The power terminal enables power supply to valves from either the controller side or manifold side. Refer to wiring examples below for either connection.

1. Wiring example with manifold power terminal



2. Wiring example without manifold power terminal (Power supplied to the controller side or to the wiring, etc.)



When connecting to a PLC, etc., the connection method for the signal lines and COM positions are different for each manufacturer. Carefully study the electrical circuits in in each catalog before connecting. Incorrect connection may cause malfunction in the PLC (control side) and power supply, etc., as well as in manifolds and valves.

operated



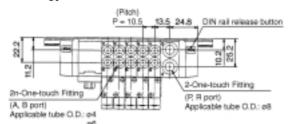


SY3000: D-sub Connector Type/Plug-in CAD



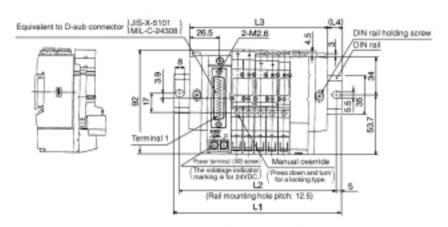
SS5Y3-45FU-Stations D - C4

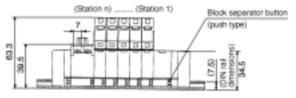
Scale: 30%





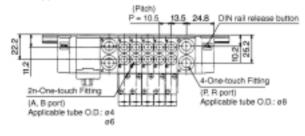
Note) Dimensions L1 to L4 of SS5Y3-45FU- $\overline{\text{Stations}}$ U- $\frac{\text{C4}}{\text{C6}}$ are the same as SS5Y3-45FU- $\overline{\text{Stations}}$ D- $\frac{\text{C4}}{\text{C6}}$.

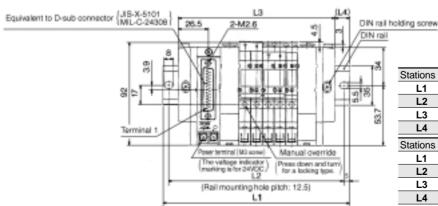




Stations n	2	3	4	5	6	7	8	9	10
L1	123	135.5	148	148	160.5	173	185.5	198	210.5
L2	112.5	125	137.5	137.5	150	162.5	175	187.5	200
L3	91.5	102	112.5	123	133.5	144	154.5	165	175.5
L4	15.5	16.5	17.5	12.5	13.5	14.5	15.5	16.5	17.5

SS5Y3-45FU-Stations B-C4





Stations n	2	3	4	5	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	13.5	14.5	15.5	16.5	17.5	12.5	13.5	14.5	15.5	
Stations n	11	12	13	14	15	16	17	18	19	20
L1	235.5	248	248	260.5	273	285.5	298	310.5	310.5	323
L2	225	237.5	237.5	250	262.5	275	287.5	300	300	312.5
L3	202.5	213	223.5	234	244.5	255	265.5	276	286.5	297
L4	16.5	17.5	12	13	14	15	16	17	12	13

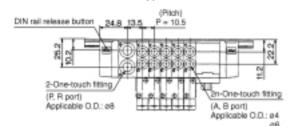


\$\$5Y3-45FU-\[D \] \$\$5Y34, #1 (#1 + #5 + #6 + #7 + #17) \$\$5Y3-45FU-\[B \] \$\$5Y34, #2 (#2 + #6 + #7 + #18)



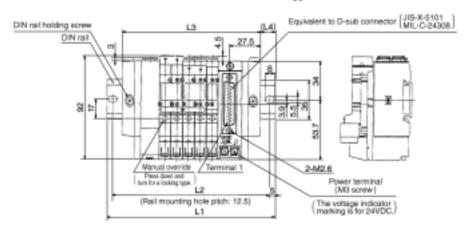
SS5Y3-45FD-Stations U-C4

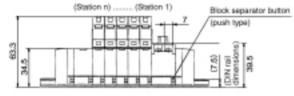
Scale: 30%





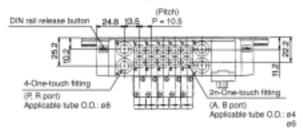
Note) Dimensions L1 to L4 of SS5Y3-45FD-Stations D-C4 are the same as SS5Y3-45FD-Stations U-C4.

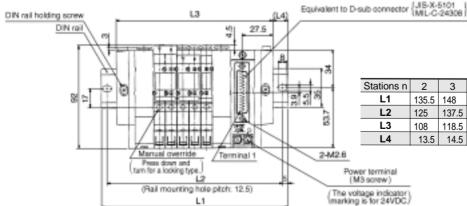




Stations n	2	3	4	5	6	7	8	9	10
L1	123	135.5	148	148	160.5	173	185.5	198	210.5
L2	112.5	125	137.5	137.5	150	162.5	175	187.5	200
L3	91.5	102	112.5	123	133.5	144	154.5	165	175.5
L4	15.5	16.5	17.5	12.5	13.5	14.5	15.5	16.5	17.5

SS5Y3-45FD-Stations B-C4





Stations n	2	3	4	5	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	13.5	14.5	15.5	16.5	17.5	12.5	13.5	14.5	15.5

-	(M3 screw)
	(The voltage indicator) marking is for 24VDC)

Stations n	11	12	13	14	15	16	17	18	19	20
L1	235.5	248	248	260.5	273	285.5	298	310.5	310.5	323
L2	225	237.5	237.5	250	262.5	275	287.5	300	300	312.5
L3	202.5	213	223.5	234	244.5	255	265.5	276	286.5	297
L4	16.5	17.5	12	13	14	15	16	17	12	13

SS5Y3-45FD-□U SS5Y34, #3 (#3 + #6 + #7 + #19) SS5Y3-45FD-□B SS5Y34, #4 (#4 + #6 + #7 + #20)



126

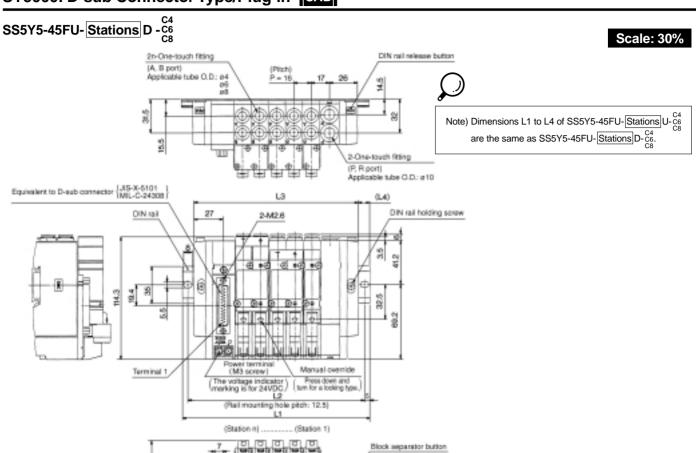
Single valve

operated



SY5000: D-sub Connector Type/Plug-in





(push type)

Stations n

L2

L4

2

3 4 5 6 7

125 | 137.5 | 150 | 175 | 187.5 | 200 | 225 | 237.5 | 250

 15
 13.5
 11.5
 16
 14.5
 12.5
 17
 15.5
 13.5

105 | 121 | 137 | 153 | 169 | 185 | 201 | 217 | 233

135.5 148 160.5 185.5 198

8 9

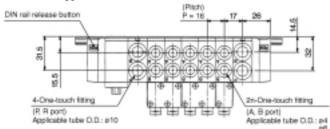
210.5 235.5 248 260.5

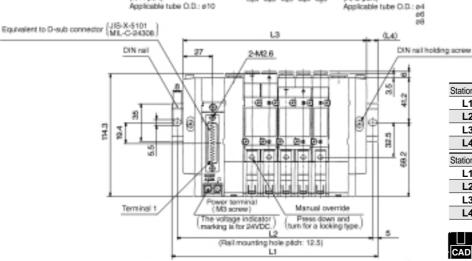
10



22.0

47.7





Stations n	2	3	4	5	6	7	8	9	10	
L1	148	173	185.5	198	210.5	235.5	248	260.5	285.5	
L2	137.5	162.5	175	187.5	200	225	237.5	250	275	
L3	123	139	155	171	187	203	219	235	251	
L4	12.5	17	15	13.5	11.5	16	14.5	12.5	17	
Stations n	11	12	13	14	15	16	17	18	19	
L1	298	310.5	323	348	360.5	373	398	410.5	423	4
L2	287.5	300	312.5	337.5	350	362.5	387.5	400	412.5	4
L3	267	283	299	315	331	347	363	379	395	4

SS5Y5-45FU-□D SS5Y54, #1 (#1 + #6 + #7 + #8 + #18)

CAD

SS5Y5-45FU-□B SS5Y54, #2 (#2 + #6 + #7 + #8 + #19)

15.5 13.5 12 16.5 14.5 13 17.5 15.5 14 12



Scale: 30%



Order made

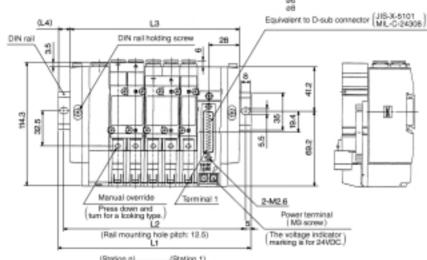
Precautions





2-One-touch fitting (A, B port) Applicable tube O.D.: e4 e6 e8 (P; R port) Applicable tube O.D.: ø10

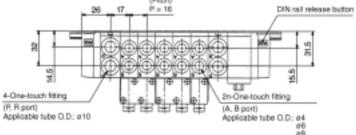
Note) Dimensions L1 to L4 of SS5Y5-45FD-Stations D-C6 are the same as SS5Y5-45FD-Stations U-C4



				0101111111		90	anon i			
72.8	22	T		000	=			Ť	Block sepa (push type)	
1	*	=	Ė	L	I		H		NO.	

Stations n	2	3	4	5	6	7	8	9	10
L1	135.5	148	160.5	185.5	198	210.5	235.5	248	260.5
L2	125	137.5	150	175	187.5	200	225	237.5	250
L3	105	121	137	153	169	185	201	217	233
1.4	15	13.5	11.5	16	1/15	12.5	17	15.5	13.5

SS5Y5-45FD-Stations B-C6



			a8			
(L4)	L3	-	Equivalent to D-sub oor	nector (JIS-X- MIL-C	5101 -24308	
DIN rail	DIN rail holding screw	28	/	Stations n	2	
\"]	4	<u> </u>		L1	148	1
1 11 17 17			•	L2	137.5	1
	+ + +	1 1 1 1 1 1 1 1 1 1	04	L3	123	1
	@ •@ @ •@ •@		- P	L4	12.5	
g r ⊕ @		B 9#	1 1	Stations n	11	
32.5	© ⊕• © ⊗• Ø•		18	L1	298	3
H			2 2 2	L2	287.5	3
' 		- \$	의 철종	L3	267	2
1 1141 /	ининин			L4	15.5	
7.1	Namual override heast down and for a looking type.) L2 [Rail mounting hole pitch: 12		Power terminal (M3 screw) (The voltage indicator (marking is for 24VDC.)	CAD	SS5 SS5	

Stations n	2	3	4	5	6	7	8	9	10	
L1	148	173	185.5	198	210.5	235.5	248	260.5	285.5	
L2	137.5	162.5	175	187.5	200	225	237.5	250	275	
L3	123	139	155	171	187	203	219	235	251	
L4	12.5	17	15	13.5	11.5	16	14.5	12.5	17	
Stations n	11	12	13	14	15	16	17	18	19	20
L1	298	310.5	323	348	360.5	373	398	410.5	423	435.5
L2	287.5	300	312.5	337.5	350	362.5	387.5	400	412.5	425
L3	267	283	299	315	331	347	363	379	395	411
L4	15.5	13.5	12	16.5	14.5	13	17.5	15.5	14	12

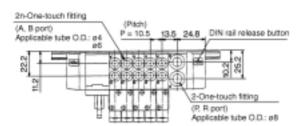
SS5Y5-45FD-□U SS5Y54, #3 (#3 + #6 + #7 + #8 + #20) SS5Y5-45FD-□B SS5Y54, #4 (#4 + #6 + #7 + #8 + #21)

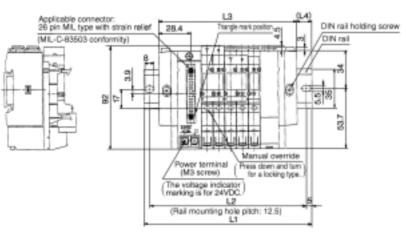
button

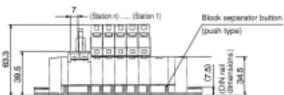


SY3000: Flat Ribbon Cable Type/Plug-in

SS5Y3-45PU-Stations D-C4 (26 pins)



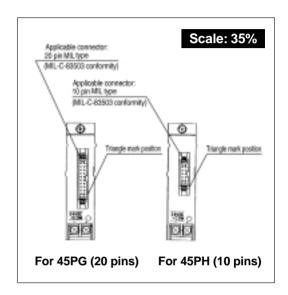




Scale: 30%

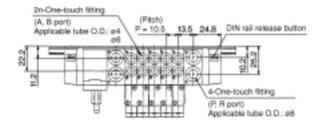


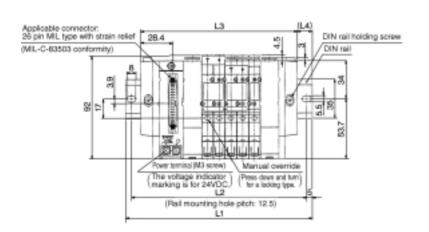
Note) Dimensions L1 to L4 of SS5Y3-45P \square U-Stations U- $^{\text{C4}}_{\text{C6}}$ are the same as SS5Y3-45P \square U-Stations D- $^{\text{C4}}_{\text{C6}}$.



Stations 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	15.5	16.5	17.5	12.5	13.5	14.5	15.5	16.5	17.5

SS5Y3-45PU-Stations B-C4 (26 pins)

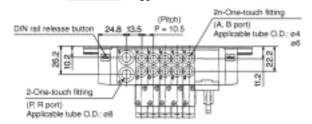




Stations n	2	3	4	5	6	7	8	9	10	
L1	135.5	148	160.5	173	185.5	185.5	198	210.5	223	
L2	125	137.5	150	162.5	175	175	187.5	200	212.5	
L3	108	118.5	129	139.5	150	160.5	171	181.5	192	
L4	13.5	14.5	15.5	16.5	17.5	12.5	13.5	14.5	15.5	
Stations n	11	12	13	14	15	16	17	18	19	20
Stations n	11 235.5		13 248	14 260.5	-	16 285.5			19 310.5	
		248	-	260.5	-	285.5		310.5	_	-
L1	235.5	248	248	260.5 250	273	285.5 275	298	310.5 300	310.5	323 312.5

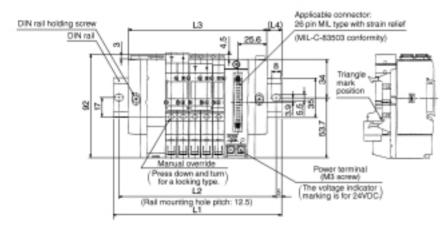


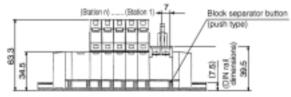
Scale: 30%





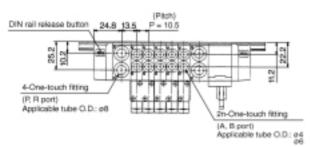
Note) Dimensions L1 to L4 of SS5Y3-45P□D-Stations D-C4 C6 are the same as SS5Y3-45P□D-Stations U-C4.



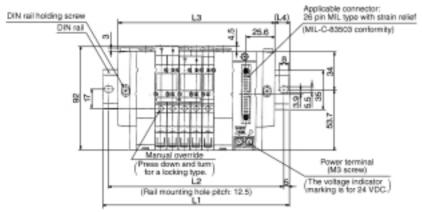


Stations n	2	3	4	5	6	7	8	9	10
L1	123	135.5	148	148	160.5	173	185.5	198	210.5
L2	112.5	125	137.5	137.5	150	162.5	175	187.5	200
L3	91.5	102	112.5	123	133.5	144	154.5	165	175.5
L4	15.5	16.5	17.5	12.5	13.5	14.5	15.5	16.5	17.5

SS5Y3-45PD-Stations B-C4 (26 pins)



Stations n	2	3	4	5	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	13.5	14.5	15.5	16.5	17.5	12.5	13.5	14.5	15.5	
Stations n	11	12	13	14	15	16	17	18	19	20
L1	235.5	248	248	260.5	273	285.5	298	310.5	310.5	323
L2	225	237.5	237.5	250	262.5	275	287.5	300	300	312.5
	000 -	242	223.5	234	244.5	255	265.5	276	286.5	297
L3	202.5	213	223.3	207	277.0	200	200.0	210	200.0	



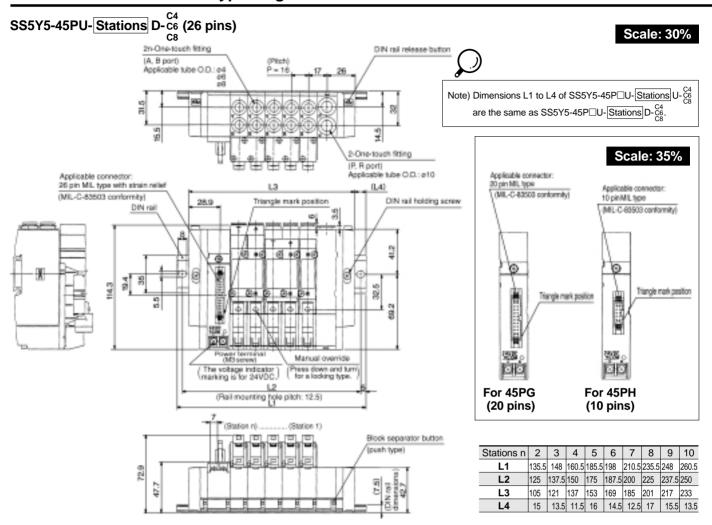
operated Order made

Precautions

130

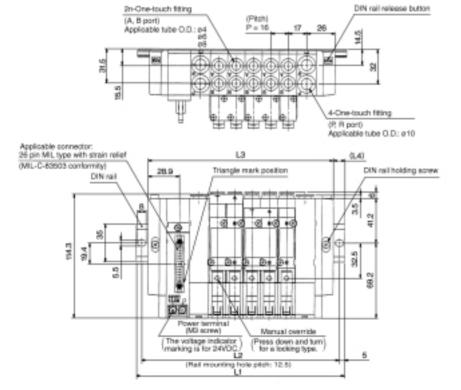


SY5000: Flat Ribbon Cable Type/Plug-in



DIN rail release button

SS5Y5-45PU-<u>Stations</u> B-^{C4}_{C8} (26 pins)



Stations n	2	3	4	5	6	7	8	9	10	
L1	148	173	185.5	198	210.5	235.5	248	260.5	285.5	
L2	137.5	162.5	175	187.5	200	225	237.5	250	275	
L3	123	139	155	171	187	203	219	235	251	
L4	12.5	17	15	13.5	11.5	16	14.5	12.5	17	
Stations n	11	12	13	14	15	16	17	18	19	20
L1	298	310.5	323	348	360.5	373	398	410.5	423	435
L2	287.5	300	312.5	337.5	350	362.5	387.5	400	412.5	425
L3	267	283	299	315	331	347	363	379	395	411
L4	15.5	13.5	12	16.5	14.5	13	17.5	15.5	14	12

Scale: 30%



Type Type Type 20 23 20P

operated

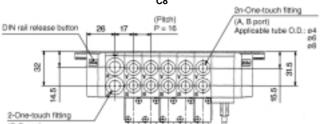
Order made

5.5

Precautions

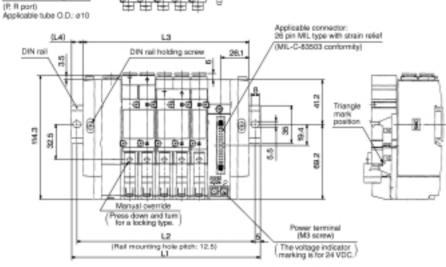


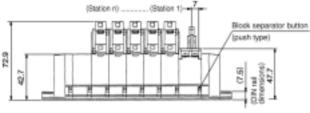
SS5Y5-45PD-Stations U-C4 (26 pins)





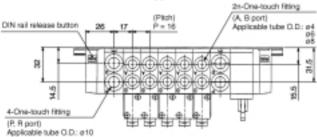
Note) Dimensions L1 to L4 of SS5Y5-45P□D-Stations D-C6 are the same as SS5Y5-45P \square D-Stations U- $^{C4}_{-C6}$.

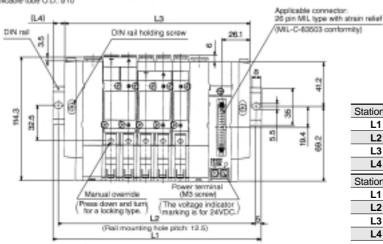




Stations n	2	3	4	5	6	7	8	9	10
L1	135.5	148	160.5	185.5	198	210.5	235.5	248	260.5
L2	125	137.5	150	175	187.5	200	225	237.5	250
L3	105	121	137	153	169	185	201	217	233
1.4	15	13.5	115	16	1/15	125	17	15.5	13.5

SS5Y5-45PD-Stations B-C6(26 pins)





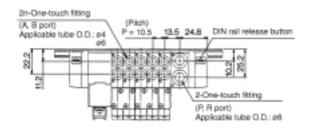
Stations n	2	3	4	5	6	7	8	9	10	
L1	148	173	185.5	198	210.5	235.5	248	260.5	285.5	
L2	137.5	162.5	175	187.5	200	225	237.5	250	275	
L3	123	139	155	171	187	203	219	235	251	
L4	12.5	17	15	13.5	11.5	16	14.5	12.5	17	
Stations n	11	12	13	14	15	16	17	18	19	20
L1	298	310.5	323	348	360.5	373	398	410.5	423	435
			010 =		050	000 5	207.5	400	412.5	425
L2	287.5	300	312.5	337.5	350	362.5	387.5	400	412.5	423
L2 L3	287.5 267	283	312.5 299	337.5	350	362.5	363	379	395	411



SY3000: Terminal Block 9 Pin Type/Plug-in

SS5Y3-45TU-Stations D-C4 (9 pins)

Scale: 30%



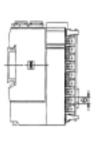


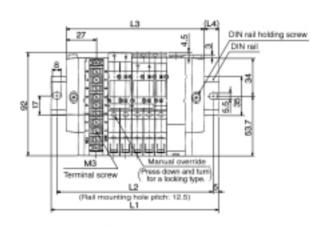
Note) Dimensions L1 to L4 of

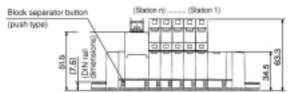
SS5Y3-45TU-Stations U-C4,

 $\begin{array}{c} \text{SS5Y3-45TD-} \overline{\text{Stations}} \text{ U-}_{\text{C6}}^{\text{C4}}, \text{ and} \\ \text{SS5Y3-45TD-} \overline{\text{Stations}} \text{ D-}_{\text{C6}}^{\text{C4}} \end{array}$

are the same as SS5Y3-45TU-Stations $D-^{C4}_{C6}$.

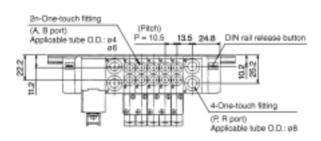






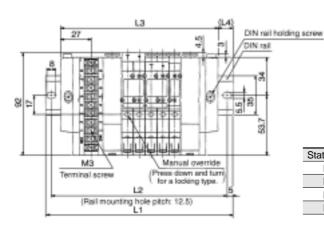
Stations n	2	3	4	5	6	7	8
L1	123	135.5	148	148	160.5	173	185.5
L2	112.5	125	137.5	137.5	150	162.5	175
L3	91.5	102	112.5	123	133.5	144	154.5
L4	15.5	16.5	17.5	12.5	13.5	14.5	15.5

SS5Y3-45TU-Stations B-C4 (9 pins)





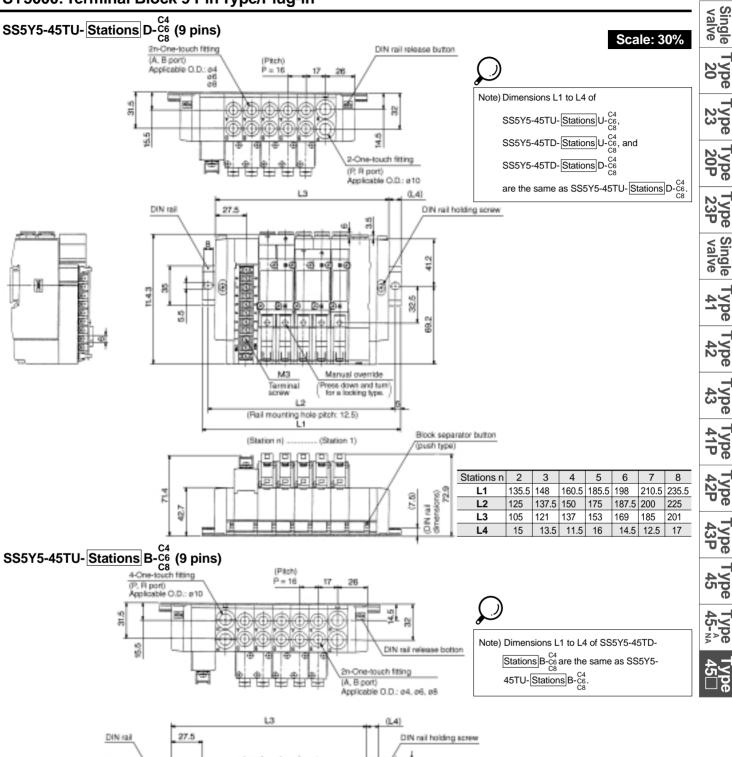
Note) Dimensions L1 to L4 of SS5Y3-45TD-Stations]B-C₆^c are the same as SS5Y3-45TU-Stations]B-C₆^c.

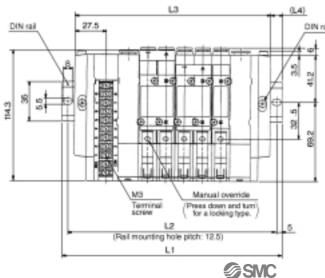


Stations n	2	3	4	5	6	7	8
L1	135.5	148	160.5	173	185.5	185.5	198
L2	125	137.5	150	162.5	175	175	187.5
L3	108	118.5	129	139.5	150	160.5	171
L4	13.5	14.5	15.5	16.5	17.5	12.5	13.5



SY5000: Terminal Block 9 Pin Type/Plug-in





Stations n	2	3	4	5	6	7	8
L1	148	173	185.5	198	210.5	235.5	248
L2	137.5	162.5	175	187.5	200	225	237.5
L3	123	139	155	171	187	203	219
L4	12.5	17	15	13.5	11.5	16	14.5

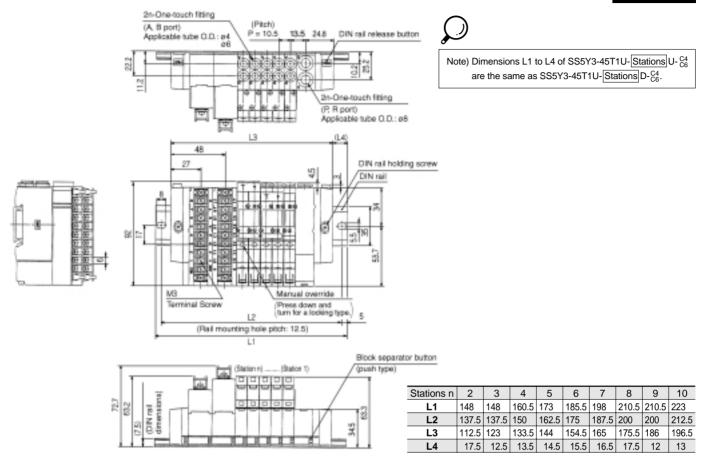
134



SY3000: Terminal Block 18 Pin Type/Plug-in

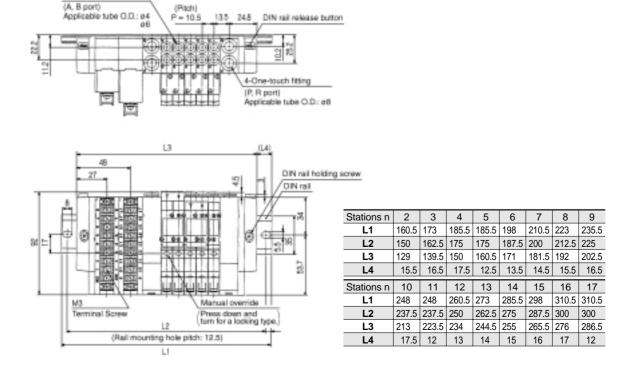
SS5Y3-45T1U-Stations D-C4 (18 pins)

Scale: 30%



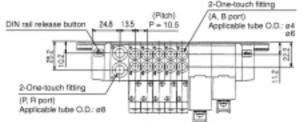
SS5Y3-45T1U-Stations B-C4 (18 pins)

2n-One-touch fitting



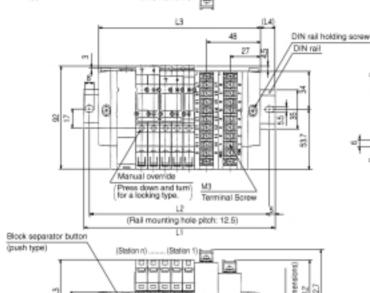
SS5Y3-45T1D-Stations U-C4 (18 pins)

Scale: 30%



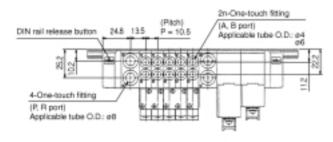


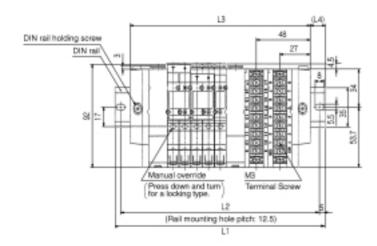
Note) Dimensions L1 to L4 of SS5Y3-45T1D- $\overline{\text{Stations}}$ D- $^{\text{C4}}_{\text{C6}}$ are the same as SS5Y3-45T1D-Stations U-C4.



Stations n	2	3	4	5	6	7	a	g	10
			400 F	_	-	400	240.5	240.5	
L1	148	148	160.5		185.5			210.5	_
L2	137.5	137.5	150	162.5	175	187.5	200	200	212.5
L3	112.5	123	133.5	144	154.5	165	175.5	186	196.5
L4	17.5	12.5	13.5	14.5	15.5	16.5	17.5	12	13

SS5Y3-45T1D-Stations B-C4 (18 pins)





Stations n	2	3	4	5	6	7	8	9
L1	160.5	173	185.5	185.5	198	210.5	223	235.5
L2	150	162.5	175	175	187.5	200	212.5	225
L3	129	139.5	150	160.5	171	181.5	192	202.5
L4	15.5	16.5	17.5	12.5	13.5	14.5	15.5	16.5
Stations n	10	11	12	13	14	15	16	17
L1	248	248	260.5	273	285.5	298	310.5	310.5
L2	237.5	237.5	250	262.5	275	287.5	300	300
L3	213	223.5	234	244.5	255	265.5	276	286.5
L4	17.5	12	13	14	15	16	17	12

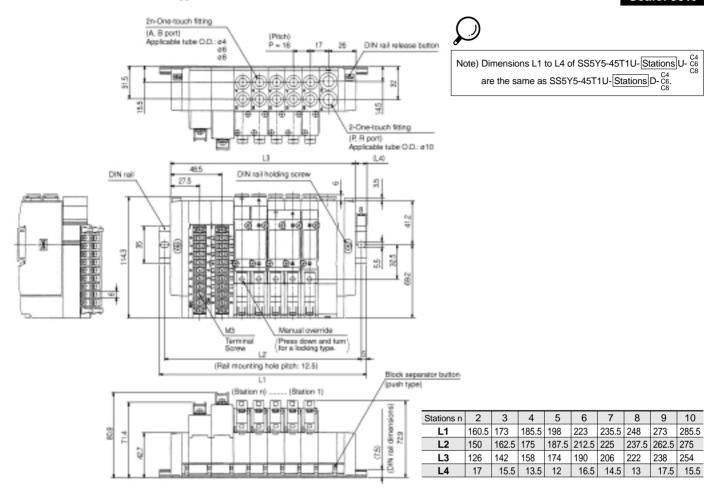
136



SY5000: Terminal Block 18 Pin Type/Plug-in

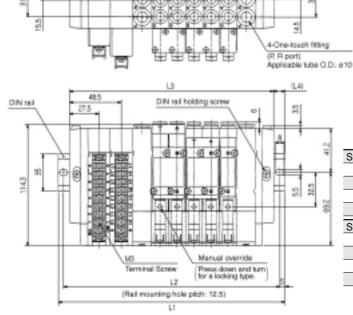
SS5Y5-45T1U-Stations D-C4 (18 pins)

Scale: 30%

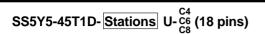


SS5Y5-45T1U-Stations B-C4 (18 pins)

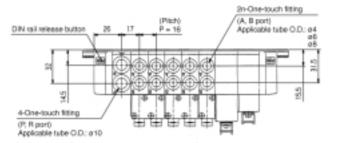
2n-One-touch fitting (A, B part) Applicable tube O.D.: p4 p6



Stations n	2	3	4	5	6	7	8	9
L1	173	185.5	210.5	223	235.5	248	273	285.5
L2	162.5	175	200	212.5	225	237.5	262.5	275
L3	144	160	176	192	208	224	240	256
L4	14.5	12.5	17	15.5	13.5	12	16.5	14.5
Stations n	10	11	12	13	14	15	16	17
L1	298	323	335.5	348	360.5	385.5	398	410.5
L2	287.5	312.5	325	337.5	350	375	387.5	400
		000	004	220	336	352	368	384
L3	272	288	304	320	330	332	300	301

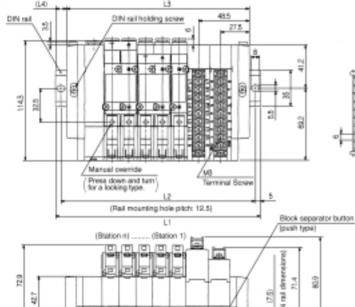


Scale: 30%



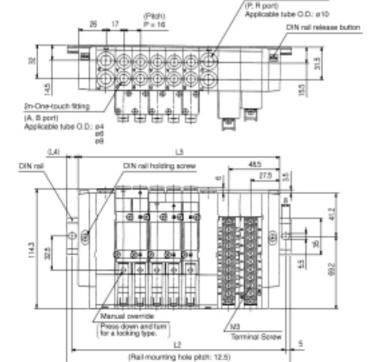


Note) Dimensions L1 to L4 of SS5Y5-45T1D-Stations D-C6 are the same as SS5Y5-45T1D-Stations U- $\overset{C4}{\underline{c6}}$.



Stations n	2	3	4	5	6	7	8	9	10
L1	160.5	173	185.5	198	223	235.5	248	273	285.5
L2	150	162.5	175	187.5	212.5	225	237.5	262.5	275
L3	126	142	158	174	190	206	222	238	254
L4	17	15.5	13.5	12	16.5	14.5	13	17.5	15.5

SS5Y5-45T1D-<u>Stations</u> B-C_{C8} (18 pins)



Stations n	2	3	4	5	6	7	8	9
L1	173	185.5	210.5	223	235.5	248	273	285.5
L2	162.5	175	200	212.5	225	237.5	262.5	275
L3	144	160	176	192	208	224	240	256
L4	14.5	12.5	17	15.5	13.5	12	16.5	14.5
Stations n	10	11	12	13	14	15	16	17
L1	298	323	335.5	348	360.5	385.5	398	410.5
L2	287.5	312.5	325	337.5	350	375	387.5	400
L3	272	288	304	320	336	352	368	384
L4	13	17.5	15.5	14	12	16.5	15	13

SMC

Order made

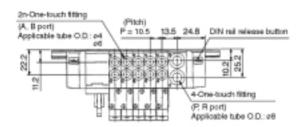
138



SY3000: PC Wiring System Compatible (Flat Ribbon Cable Type/Plug-in)

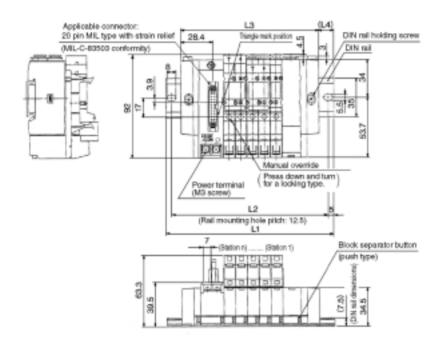
SS5Y3-45GU-Stations D-C4

Scale: 30%



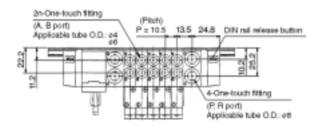


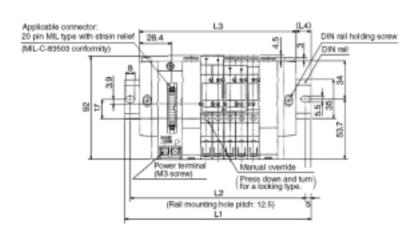
Note) Dimensions L1 to L4 of SS5Y3-45GU- $\overline{\text{Stations}}$ U- $\frac{\text{C4}}{\text{C6}}$ are the same as SS5Y3-45GU- $\overline{\text{Stations}}$ D- $\frac{\text{C4}}{\text{C6}}$.



Stations 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	15.5	16.5	17.5	12.5	13.5	14.5	15.5	16.5	17.5

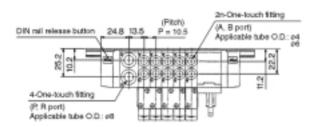
SS5Y3-45GU-Stations B-C4





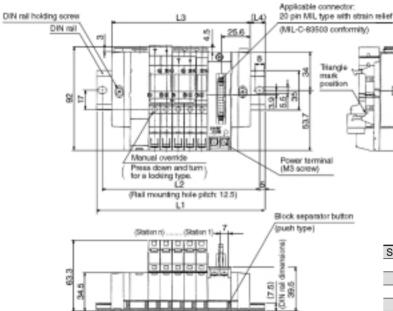
Stations n	2	3	4	5	6	7	8	9	10
L1	135.5	148	160.5	173	185.5	185.5	198	210.5	223
L2	125	137.5	150	162.5	175	175	187.5	200	212.5
L3	108	118.5	129	139.5	150	160.5	171	181.5	192
L4	13.5	14.5	15.5	16.5	17.5	12.5	13.5	14.5	15.5
Stations n	11	12	13	14	15	16			
L1	235.5	248	248	260.5	273	285.5			
L2	225	237.5	237.5	250	262.5	275			
L3	202.5	213	223.5	234	244.5	255			
L4	16.5	17.5	12	13	14	15			





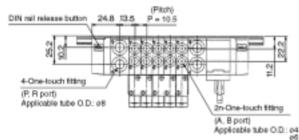


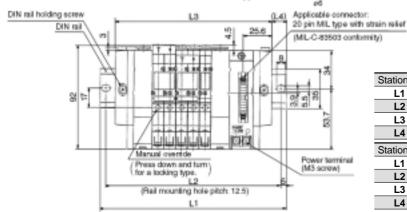
Note) Dimensions L1 to L4 of SS5Y3-45GD-Stations D-C4 are the same as SS5Y3-45GD-Stations U-C4-C6-



Stations 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	15.5	16.5	17.5	12.5	13.5	14.5	15.5	16.5	17.5

SS5Y3-45GD-Stations B-C4





Stations n	2	3	4	5	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	13.5	14.5	15.5	16.5	17.5	12.5	13.5	14.5	15.5
Stations n	11	12	13	14	15	16			
L1	235.5	248	248	260.5	273	285.5			
L2	225	237.5	237.5	250	262.5	275			
L3	202.5	213	223.5	234	244.5	255			
L4	16.5	17.5	12	13	14	15			

Single valve

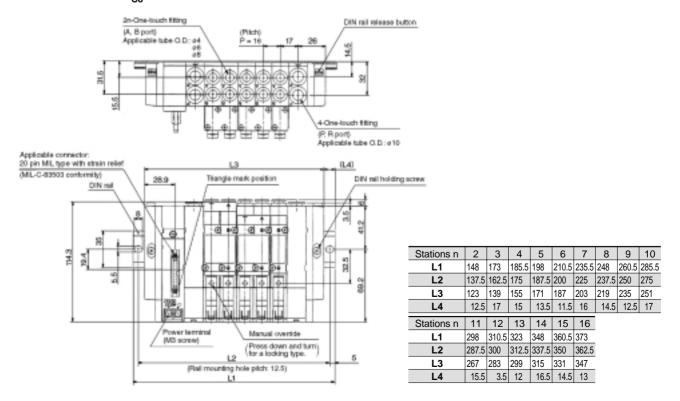
Order made



SY5000: PC Wiring System Compatible (Flat Ribbon Cable Type/Plug-in)

SS5Y5-45GU-Stations D-C6 **Scale: 30%** (A, B port) Applicable tube O.D.: #4 Note) Dimensions L1 to L4 of SS5Y5-45GU-Stations U-C6 are the same as SS5Y5-45GU-Stations D-C6 2-One-touch fitting (P. R. port) Applicable tube O.D.: ø10 Applicable connector: 20 pin MIL type with strain relief (44) (MIL-C-80500 conformity) 26.9 Triangle mark position DIN rail holding screw DIN rei 8 Manual override Power terminal (M3 screw) (Station n) (Station 1) Block separator button push type) Stations n 3 4 5 6 7 8 9 10

SS5Y5-45GU-Stations B-C4C6C8



E 2

135.5 148 160.5 185.5 198 210.5 235.5 248 260.5

125 | 137.5 | 150 | 175 | 187.5 | 200 | 225 | 237.5 | 250

105 | 121 | 137 | 153 | 169 | 185 | 201 | 217 | 233

15 13.5 11.5 16 14.5 12.5 17 15.5 13.5

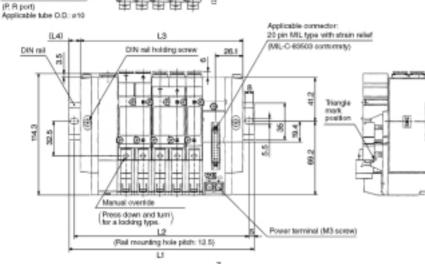
L1 L2

L3 L4





Note) Dimensions L1 to L4 of SS5Y5-45GD-Stations D-C6 C8 are the same as SS5Y5-45GD-Stations U-C4

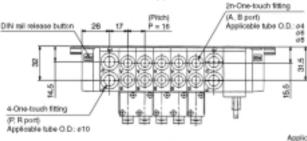


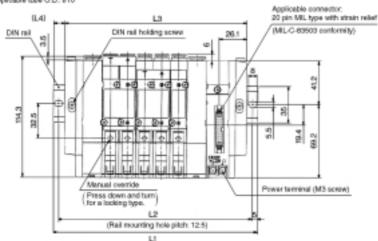
	(Station ri) (Station 1)	Block separator button
27.29		push type) (2.2) (2.2) (2.2) (2.2)

Stations n	2	3	4	5	6	7	8	9	10
L1	135.5	148	160.5	185.5	198	210.5	235.5	248	260.5
L2	125	137.5	150	175	187.5	200	225	237.5	250
L3	105	121	137	153	169	185	201	217	233
L4	15	13.5	11.5	16	14.5	12.5	17	15.5	13.5

SS5Y5-45GD-Stations B-C6

2-One-tough fittin





Stations n	2	3	4	5	6	7	8	9	10
L1	148	173	185.5	198	210.5	235.5	248	260.5	285.5
L2	137.5	162.5	175	187.5	200	225	237.5	250	275
L3	123	139	155	171	187	203	219	235	251
L4	12.5	17	15	13.5	11.5	16	14.5	12.5	17
Stations n	11	12	13	14	15	16			
L1	298	310.5	323	348	360.5	373			
L2	287.5	300	312.5	337.5	350	362.5			
L3	267	283	299	315	331	347			
L4	15.5	13.5	12	16.5	14.5	13			

Single Type Type Type Type Single Type Type valve 20 23 20P 23P valve 41 42

operated

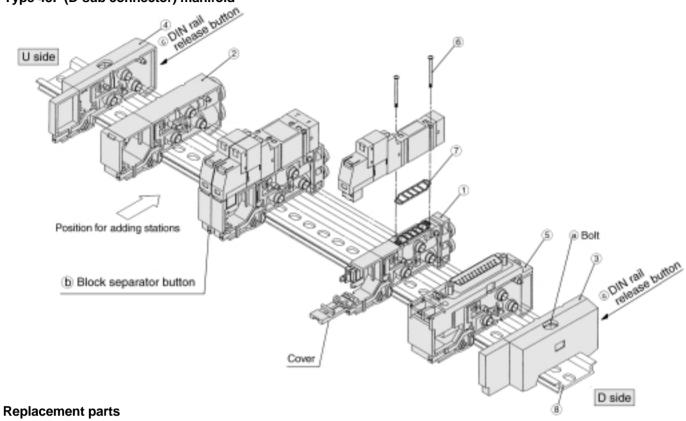
Order made

Precautions



Exploded View of DIN Rail Manifold

Type 45F (D-sub connector) manifold



	decinent parts	_					
No.	Description		t no.	Note			
140.	Description	SY3000	SY5000	NOTE			
1	Manifold block assembly			ers depending on the connector sp mbly part number from the table be			
2	SUP/EXH block assembly	SX3000-51-2A	SX5000-51-2A	SY3000: P, R ports SY5000: P, R ports	ø8 One-touch fitting ø10 One-touch fitting		
3	End block assembly	SX3000-52-2A	SX5000-52-2A	For D) side		
4	End block assembly	SX3000-53-2A	SX5000-53-2A	For U	J side		
5-1	Connector block assembly (for D-sub connector)	SX3000-64-1A	SX5000-64-1A	-1A: Positive COM -1NA: Negative COM			
5-2	Connector block assembly (for flat ribbon cable 26 pins)	SX3000-64- ^{2A} _{2NA} -26	SX5000-64- ^{2A} _{2NA} -26		24VDC specification Note)		
5-3	Connector block assembly (for flat ribbon cable 20 pins)	SX3000-64- ^{2A} _{2NA} -20	SX5000-64- ^{2A} _{2NA} -20	-2A: Positive COM -2NA: Negative COM	·		
5-4	Connector block assembly (for flat ribbon cable10 pins)	SX3000-64- ^{2A} _{2NA} -10	SX5000-64- ^{2A} _{2NA} -10				
5-5	Connector block assembly (for terminal block 2 to 8 stations [T, T1])	SX3000-64-3A	SX5000-64-3A	Docitive COM non	ativa COM someon		
5-6	Connector block assembly (for terminal block 9 to 17 stations [T1])	SX3000-64-8A	SX5000-64-8A	Positive COM, negative COM common			
6	Round head combination screw	SY3000-23-4	M3 x 26 (Flat nickel plated)				
7	Gasket	SX3000-57-4	SX5000-57-5				
8	DIN rail	VZ1000)-11-1-□	Refer to	page 98.		



Note 1) The numbers 5-1 through 5-4 are 24VDC specification. For 12VDC specification, add -12V at the end of the part number. Example: SX3000-64-1A-12V Note 2) Two manifold block assemblies are required for a double solenoid 3 position (dual body type).

Manifold block assembly part nos.

Manifold type	Manifold block assembly part no.	Note	
45(N)F (D-sub connector type)	SX ₅ ³ 000-50-3A-□□	□□: • For SY3000	
45(N) FG (Flat ribbon cable type)	SX ³ 000-50-5A-□□	C4: ø4 One-touch fitting C6: ø6 One-touch fitting	
45G PC wiring compatible	3∧ ₅ 000-30-3∧-∟∟	• For SY5000 C4: ø4 One-touch fitting	
45 T ₁ (Terminal block type)	SX ₅ ³ 000-50-7A-□□	C6: ø6 One-touch fitting C8: ø8 One-touch fitting	



Manifold Base Expansion

Loosen bolts (a) which hold the manifold block until it begins to turn idly. (While pressing down the DIN rail release buttons (c), remove the manifold base from the DIN rail.)

Since stations are added on the U side, press the manifold block assembly separator button (b) on the U side until it locks, and then break the connection between block assemblies.

Separate the connector block assembly in the same manner as step 2, and remove the connector mounting screw as shown in

Loosen the valve mounting screw on the U side, remove the valve, and then take out the receptacle housing. (See Figure 2.)

Insert the common wire (red), of the manifold block assembly to be added, into the pin insertion section (N mark) of the receptacle housing, which was taken out in step 4. Mount this to the manifold block and remount the removed valve.

6 On the U side, mount the manifold block assembly to be added onto the DIN rail as shown in Figure 3. Refer to the circuit diagram and insert the lead wire (black) as shown in Figure 4.

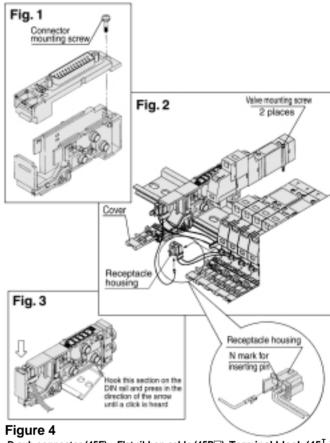
Connect the manifold block assemblies by pressing them together until a click is heard. Put the lead wire inside the manifold block and close the lid, making sure that the lead wire does not get caught.

Hold the block assemblies lightly so that there is no space between them and secure them on the DIN rail by tightening bolts (a). **△ Caution** (Tightening torque: 1.4N·m)

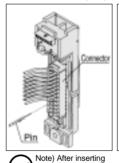
⚠ Caution

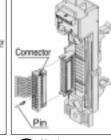
3

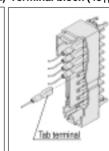
- Note 1) Depending on the connector type, there is a limit to the number of solenoids that be used with this manifold. Manifold stations that can be added cannot exceed the number of usable solenoids
- Note 2) Note that manifold block assemblies are always added on the U side since the wiring to each connector is made sequentially from the D side.
- Note 3) When disassembly and assembly are performed, insufficient connection of blocks or tightening of bolts (a) will cause air leakage. Be sure to confirm that there is no space between the manifold blocks and they are firmly secured on the DIN rail before supplying air. After supplying air, confirm that there is no air



D-sub connector (45F) Flat ribbon cable (45P \square) Terminal block (45 $^{\text{T}}_{11}$)







the pin, lightly pull the lead wire to confirm that the pins are locked.

Note) Remove the connector before pins, lightly pull the that the pins are

Note) Insert tab terminals completely to the end.

How to Replace Fitting Assemblies

By replacing manifold block fitting assemblies on a type 45 manifold, the port size of the A and B ports can be changed.

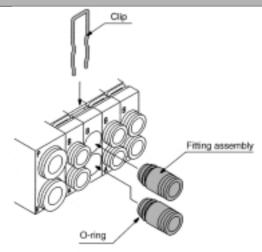
To replace these parts, remove the clip with a flat head screw driver after the valve has been removed. Insert the fitting assemblies, and then reinsert the clip so that it does not protrude from the manifold block.

Fitting assembly part nos.

Port size Series	SY3000	SY5000
ø4 One-touch fitting	VVQ1000-50A-C4	VVQ1000-51A-C4
ø6 One-touch fitting	VVQ1000-50A-C6	VVQ1000-51A-C6
ø8 One-touch fitting		VVQ1000-51A-C8

Note 1) Fitting assemblies for P and R ports cannot be changed.

Note 2) Do not scratch or put foreign matter on the O-ring, as this will cause air leakage





operateo

made



SY3000/5000 Base Mounted Type Manifold Stacking Type/DIN Rail Mount Serial Transmission (Integrated)

How to Order Manifolds

SS5Y 3 - 45S A - 05 U - C6 Manifold series • 3 SY3000 5 SY5000 Sl unit type • Symbol Specification O Without Sl unit A General purpose type: Series EX300 B MELSECNET/MINI-S3 C SYSBUS

0	Without SI unit					
Α	General purpose type: Series EX300					
В	MELSECNET/MINI-S3					
С	SYSBUS					
D	Satellite I/O Link					
E	MEWNET-F					
F1	Uni-wire (16 output)					
G	Allen-Bradley Remote I/O					
Н	Uni-wire H system					
J1	S-Link (16 outputs)					
J2	S-Link (8 outputs)					
K	T Link Mini					
Q	DeviceNet					
R1	CompoBus/S (16 outputs)					
R2	CompoBus/S (8 outputs)					
U	JEMANET					
٧	CC-Link					



Note 1) With general purpose types, a transmission unit is required on the CPU side.

Note 2) Even without an SI unit, the length of the DIN rail can accommodate an SI unit.

SI unit part nos.

Note) Refer to page 148 for the full descriptions and part numbers of SI units.

Stations

Symbol	Stations	Note
02	2 stations	Single wiring specification
:	:	(Up to 16 solenoids
16	16 stations	applicable)



Note 1) Includes the number of blanking plate assemblies.

Note 2) Two manifold stations are required for double solenoid 3 position valves (dual

body type).

SUP/EXH block assembly mounting position

Symbol	Mounting position	Applicable stations			
U	U side	2 to 10 stations			
D	D side	2 to 10 stations			
В	Both sides	2 to 16 stations			
M*	Special specifications				

* For special specifications, order separately on a manifold specification sheet.

A/B port size ●

SY300	SY3000				
Symbol	Port size				
C4	ø4 One-touch fitting				
C6	ø6 One-touch fitting				
M *	Mixed				

01300	313000				
Symbol	Port size				
C4	ø4 One-touch fitting				
C6	ø6 One-touch fitting				
C8	ø8 One-touch fitting				
M*	Mixed				

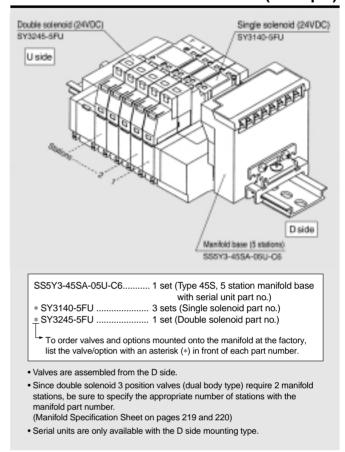
^{*} For mixed specifications, order separately on a manifold specification sheet.

CVENNO

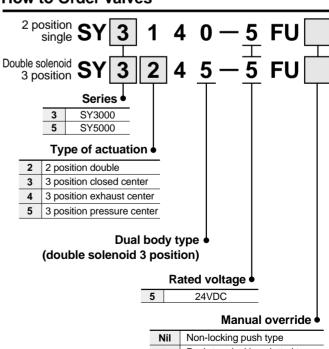
Option 6

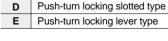
When a DIN rail longer than the specified stations is necessary, indicate the number of required stations. (Max. 20 stations)

How to Order Manifold Assemblies (Example)



How to Order Valves

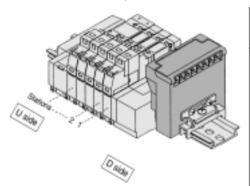






Precautions

- The serial transmission system minimizes the number of wire connections and saves space.
- 16 stations maximum (For 9 stations or more, indicate on a manifold specification sheet.)



• Valves are numbered from the D side.

Item External

power supply

Current

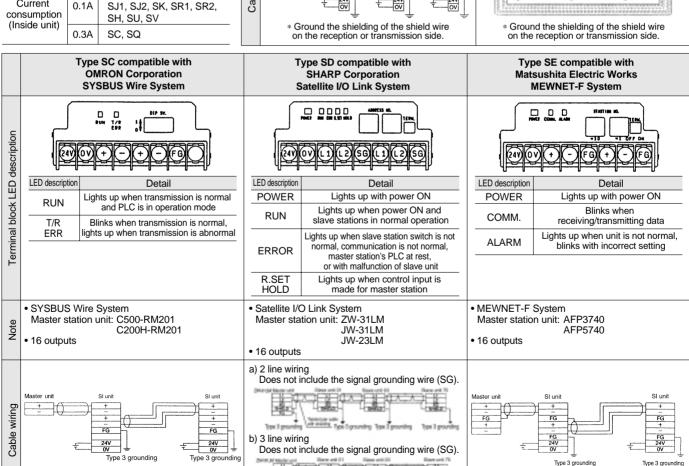
· A maximum of 16 solenoids (16 stations with single solenoids) can be used.

Specification

24VDC±10%

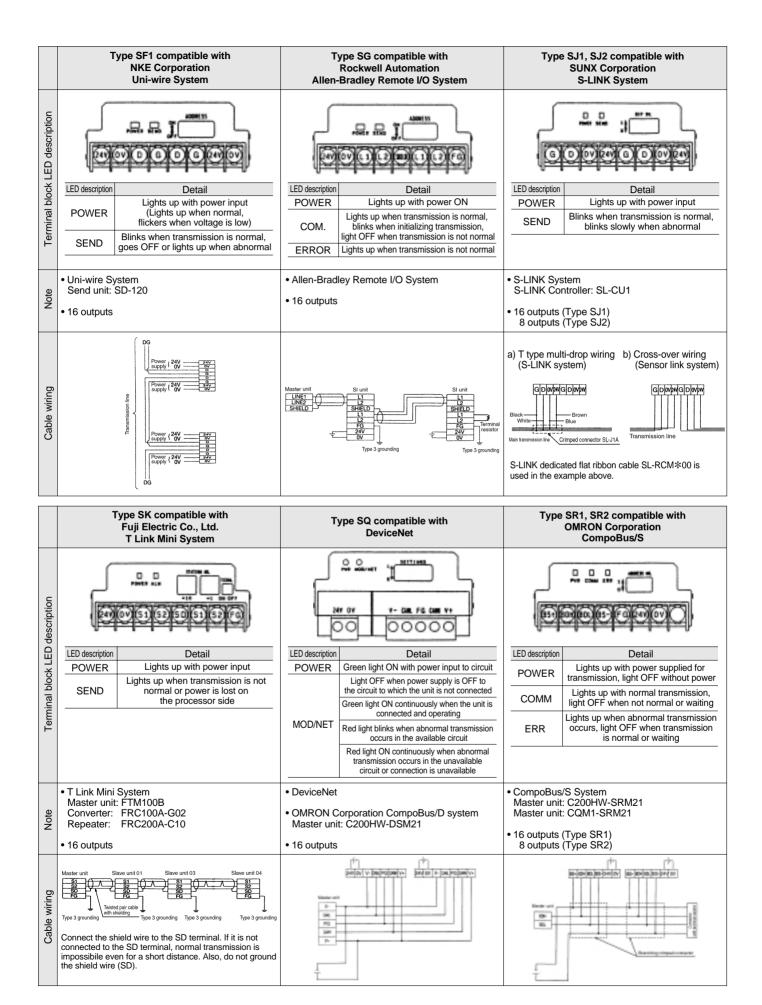
SA, SB, SD, SE, SF1, SG,

	1	Type SA compatible with Series EX300	Mits	Type SB compatible with ubishi Electric Corporation CNET/MINI-S3 Data Link System
Terminal block LED description		ADDRESS NO. OV S1 S2 SG R1 R2 F6		OV (SDA) (SDB) (GG) (RDA) (RDB) (F.G.)
当	LED description		LED description	
충	TRD	Lights up when receiving data	POWER	Lights up with power input
al blo	RUN/ERR	Blinks when receiving normal data, lights up when receiving	RUN	Lights up when normally transmitting data with master station
E E		abnormal data	RD	Lights up when receiving data
<u>_</u>			SD	Lights up when receiving data
			ERR.	Lights up when error occurs during data reception, OFF when normal
Note	manufacti EX300-TN EX300-TT EX300-TF EX300-TC	o the I/O card of transmission PLC urers to enable serial transmission. MB1for Mitsubishi Electric Corporation FA1for OMRON corporation FQ1for Fuji Electric Co., Ltd. J01 General purpose points controlled per transmission unit. s	Master un	NET/MINI-S3 Data Link System it: AJ71PT32-S3 AJ71T32-S3 A1SJ71PT32-S3 s, 2 occupied stations
Cable wiring		OB unit SI uni	* Groui	I manifold solenoid valves Indicate the shielding of the shield wire a reception or transmission side.









SI unit part nos.

	•				
Symbol	Specification	SS5Y□-45S	Symbol	Specification	SS5Y□-45S
Α	General purpose type: Series EX300	EX322-S001	J1	SUNX Corporation: S-LINK System (16 outputs) compatible	EX122-SSL1
В	Mitsubishi Electric Corporation: MELSECNET/MINI-S3 Data Link System compatible	EX122-SMB1	J2	SUNX Corporation: S-LINK System (8 outputs) compatible	EX122-SSL2
С	OMRON Corporation: SYSBUS Wire System compatible	EX122-STA1	K	Fuji Electric Co., Ltd: T Link Mini System compatible	EX122-SFU1
D	SHARP Corporation: Satellite I/O Link System compatible	EX122-SSH1	Q	DeviceNet, OMRON Corporation: CompoBus/D compatible	EX122-SDN1
E	Matsushita Electric Works: MEWNET-F System compatible	EX122-SPA1	R1	OMRON Corporation: CompoBus/S (16 outputs) compatible	EX122-SCS1
F1	NKE Corporation: Uni-wire System (16 outputs) compatible	EX122-SUW1	R2	OMRON Corporation: CompoBus/S (8 outputs) compatible	EX122-SCS2
G	Rockwell Automation: Allen-Bradley Remote I/O System compatible	EX122-SAB1	U	JEMANET (JPCN-1) compatible	EX122-SJN1
Н	NKE Corporation: Uni-wire H System compatible	EX122-SUH1	٧	Mitsubishi Electric Corporation: CC-LINK System compatible	EX122-SMJ1

SMC

3 port Air Order valve operated made

Manifold spec. sheets

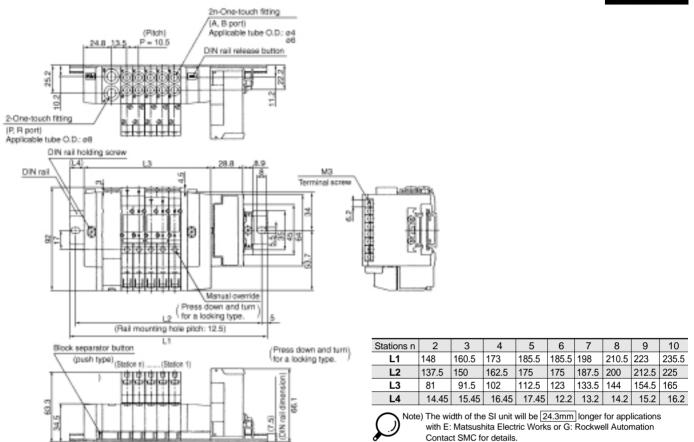
148



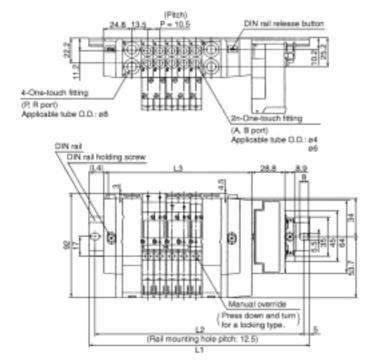
Series SY3000: Serial Transmission/Plug-in

SS5Y3-45S□-Stations U-C4

Scale: 30%



SS5Y3-45S□-Stations B-C4

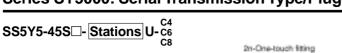


Stations n	2	3	4	5	6	7	8	9	10
L1	160.5	173	185.5	198	210.5	223	223	235.5	248
L2	150	162.5	175	187.5	200	212.5	212.5	225	237.5
L3	97.5	108	118.5	129	139.5	150	160.5	171	181.5
L4	12.45	13.45	14.45	15.45	16.45	17.45	12.2	13.2	14.2
Stations n	11	12	13	14	15	16			
Stations n	11 260.5	12 273	13 285.5	14 285.5	15 298	16 310.5			
			-		-				
L1	260.5	273	285.5	285.5	298	310.5			
L1 L2	260.5 250	273 262.5	285.5 275	285.5 275	298 287.5	310.5 300			

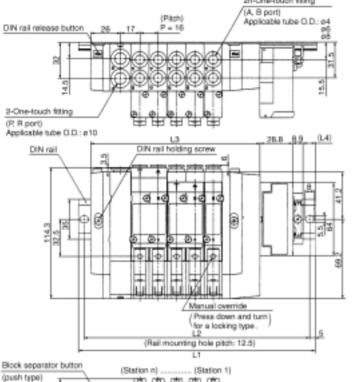
Note) The width of the SI unit will be 24.3mm longer for applications with E: Matsushita Electric Works or G: Rockwell Automation Contact SMC for details.

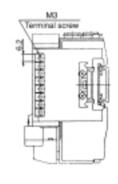


Series SY5000: Serial Transmission Type/Plug-in



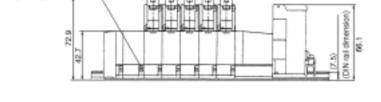
Scale: 30%



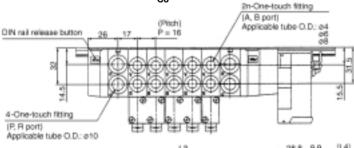


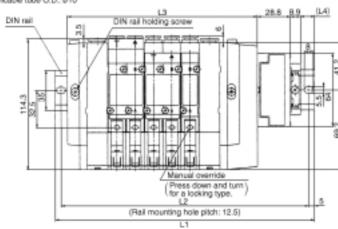
Stations n	2	3	4	5	6	7	8	9	10
L1	173	185.5	198	210.5	235.5	248	260.5	285.5	298
L2	162.5	175	187.5	200	225	237.5	250	275	287.5
L3	100	116	132	148	164	180	196	212	228
L4	17.45	15.7	13.95	12.2	16.7	14.95	13.2	17.7	15.95

Note) The width of the SI unit will be 24.3mm longer for applications with E: Matsushita Electric Works or G: Rockwell Automation Contact SMC for details.









Stations n	2	3	4	5	6	7	8	9	10
L1	185.5	198	223	235.5	248	260.5	285.5	298	310.5
L2	175	187.5	212.5	225	237.5	250	275	287.5	300
L3	118	134	150	166	182	198	214	230	246
L4	14.7	12.95	17.45	15.7	13.95	12	16.5	14.95	13.2
Stations n	11	12	13	14	15	16			
L1	335.5	348	360.5	373	398	410.5			
L2	325	337.5	350	362.5	387.5	400			
L3	262	278	294	310	326	342			
L4	17.7	15.95	14.2	12.45	16.95	15.2			

Note) The width of the SI unit will be 24.3mm longer for applications with E: Matsushita Electric Works or G: Rockwell Automation Contact SMC for details.

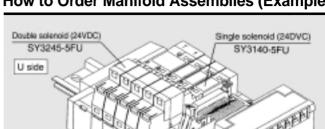
operated

Order made

Precautions



How to Order Manifold Assemblies (Example)



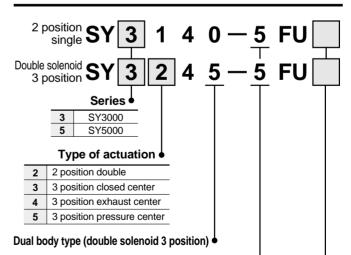
D side Manifold base (5 stations) \$\$5Y3-45\$1AD-05U-C6 SS5Y3-45S1AD-05U-C6...... 1 set (Type 45S1, 5 station manifold base with serial unit part no.)

* SY3140-5FU 3 sets (Single solenoid part no.) * SY3245-5FU 1 set (Double solenoid part no.)

To order valves and options mounted onto the manifold at the factory. list the valve/option with an asterisk (*) in front of each part number.

- Valves are assembled from the D side regardless of the mounting position of the SI unit.
- Since double solenoid 3 position valves (dual body type) require 2 manifold stations, be sure to specify the appropriate number of stations with the manifold part number (Manifold Specification Sheet on pages 221 and 222)

How to Order Valves

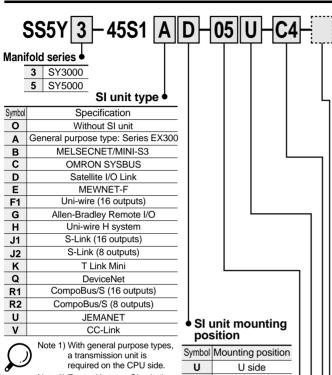


Rated voltage 5 24VDC

Manual override

Nil	Non-locking push type
D	Push-turn locking slotted type
E	Push-turn locking lever type

How to Order Manifolds



D

Note 2) Even without an SI unit the length of the DIN rail can accommodate an SI unit. If a shorter length for the DIN rail is desired (same as type 45□), add "0" for option at the end of the part number.

Note 3) Refer to pages 146 through 148 for SI unit specifications

Stations •

Symbol	Stations	Note											
02	2	Single wiring specification											
:	:	(Up to 16 solenoids											
16	16	applicable)											



Note 1) Includes the number of blanking plate assemblies

Note 2) Two manifold stations are required for double solenoid 3 position valves (dual body type).

SUP/EXH block assembly mounting position

D side

Symbol	Mounting position	Applicable stations							
U	U side	2 to 10 stations							
D	D side	2 to 10 stations							
В	Both sides	2 to 16 stations							
M*	Special specifications								

For special specifications, order separately on a manifold specification sheet.

A/B port size

SY3000

Port size								
ø4 One-touch fitting								
ø6 One-touch fitting								
Mixed								

Symbol Port size ø4 One-touch fitting C4 ø6 One-touch fitting C₆ ø8 One-touch fitting C8

* For mixed specifications, order separately on a manifold specification sheet.

SY5000

M

Option 4

When a DIN rail longer than the specified stations is necessary, indicate the number of required stations. (Max. 20 stations)

Mixed

SI unit part nos. Note) Refer to page 148 for the full descriptions and part numbers of SI units.

Note) For terminal block LED descriptions and cable wiring of SI units, refer to pages 146 through 148



For external pilot specifications and built-in silencer, refer to page

152

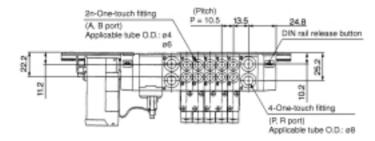


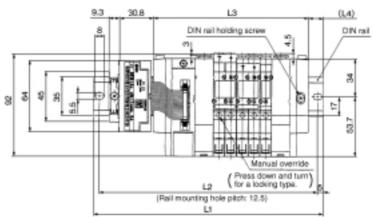
Series SY3000: Serial Transmission/Plug-in

SS5Y3-45S1□U-Stations U-C4 Scale: 30% (Pitch) 2n-One-tough fitting 24.8 (A, B port) Applicable tube O.D.: e4 DIN rail release button Note) Dimensions L1 to L4 of SS5Y3-45S1□U-262 Stations U-C4 are the same as SS5Y3-45S1□U-Stations D-C4. 0.2 2-One-touch (P. R port) Applicable tube O.D.: e8 (L4) ма DIN rail holding screw DIN rail Terminal screw 3 Φ 蕃 8 53.7 Manual override Press down and turn for a locking type. Block separator button (push type) (Rail mounting hole pitch: 12.5) Stations n 2 3 4 5 6 8 9 10 198 210.5 223 235.5 L1 160.5 173 185.5 198 248 (Station n) (Station 1) L2 150 162.5 175 187.5 187.5 200 212.5 225 237.5 91.5 102 112.5 123 L3 133.5 144 154.5 165 175.5 L4 14 15 16 17 12 13 14 | 15 8 (3.5) 8

34.6

SS5Y3-45S1□U-Stations B-C4





					_				
Stations n	2	3	4	5	6	7	8	9	10
L1	173	185.5	198	210.5	223	235.5	235.5	248	260.5
L2	162.5	175	187.5	200	212.5	225	225	237.5	250
L3	108	118.5	129	139.5	150	160.5	171	181.5	192
L4	12	13	14	15	16	17	12	13	14
Stations n	11	12	13	14	15	16			
- 1.4									
L1	273	285.5	298	298	310.5	323			
L1 L2	273 262.5	285.5 275	298 287.5	298 287.5	310.5 300	323 312.5			
	_								

Note) The width of the SI unit will be 24.3mm longer for applications with E: Matsushita Electric Works or G: Rockwell Automation Contact SMC for details.



Note) The width of the SI unit will be 24.3mm longer for applications with E: Matsushita Electric Works or G: Rockwell Automation Contact SMC for details.



Single valve



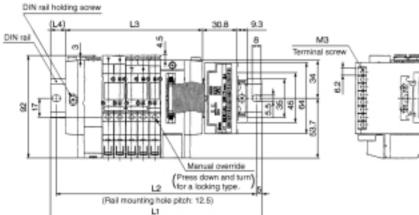




Note) Dimensions L1 to L4 of SS5Y3-45S1□D-Stations D-C4 are the same as SS5Y3-45S1□D- Stations U-C4.

2-One-touch fitting (P. Riport) Applicable tube O.D.: at

SS5Y3-45S1□D- Stations U-C4



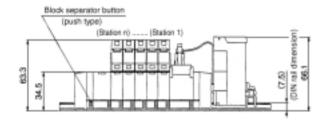
4 6 9 10 L1 160.5 185.5 198 198 210.5 223 235.5 248 173 L2 150 162.5 175 187.5 187.5 200 212.5 225 237.5 L3 133.5 144 154.5 165 175.5 91.5 102 112.5 123 L4 16 17 12 13 14



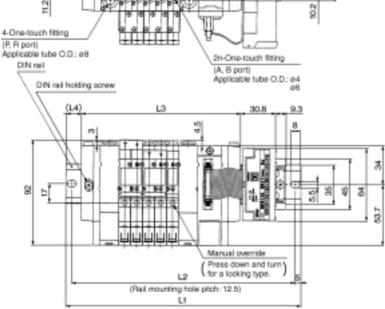
DIN rail release button

8

Note) The width of the SI unit will be $\boxed{24.3 \text{mm}}$ longer for applications with E: Matsushita Electric Works or G: Rockwell Automation Contact SMC for details.



SS5Y3-45S1□D- Stations B-C4 (Pitch) P = 10.5 24.8



	Stations n	2	3	4	5	6	7	8	9	10
7	L1	173	185.5	198	210.5	223	235.5	235.5	248	260.5
ᇷ	L2	162.5	175	187.5	200	212.5	225	225	237.5	250
_	L3	108	118.5	129	139.5	150	160.5	171	181.5	192
7	L4	12	13	14	15	16	17	12	13	14
٠Į	Stations n	11	12	13	14	15	16			
8	L1	273	285.5	298	298	310.5	323			
-	L2	262.5	275	287.5	287.5	300	312.5			

223.5 234

L4 15 16 17

L3 202.5 213

Note) The width of the SI unit will be 24.3mm longer for applications with E: Matsushita Electric Works or G: Rockwell Automation Contact SMC for details.

244.5 255

11.5 12.5 13.5

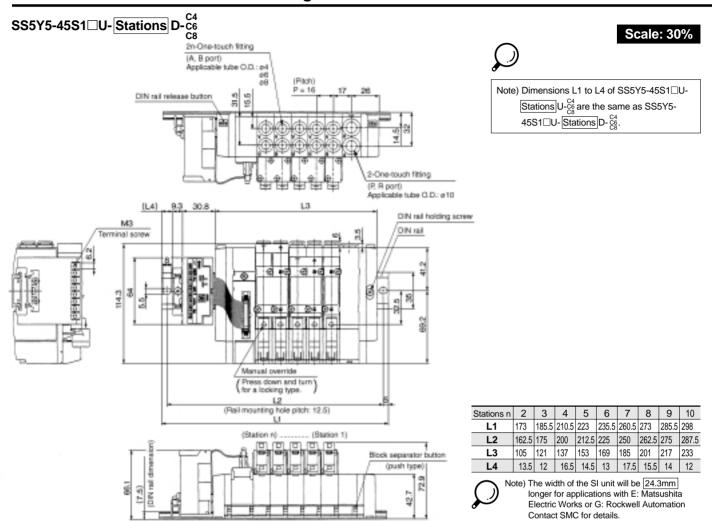
operated

Order made

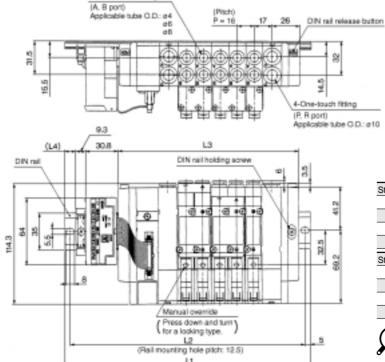
Precautions



Series SY5000: Serial Transmission/Plug-in



SS5Y5-45S1 \square U-Stations B- $_{\text{C8}}^{\text{C4}}$



2n-One-touch fitting

Stations n	2	3	4	5	6	7	8	9	10
L1	198	210.5	223	235.5	260.5	273	285.5	310.5	323
L2	187.5	200	212.5	225	250	262.5	275	300	312.5
L3	123	139	155	171	187	203	219	235	251
L4	17	15.5	13.5	12	16.5	14.5	13	17.5	15.5
Stations n	11	12	13	14	15	16			
L1	335.5	348	373	385.5	398	410.5			
L2	325	337.5	362.5	375	387.5	400			
L3	267	283	299	315	331	347			
L4	14	12	16.5	15	13	11.5			



Note) The width of the SI unit will be 24.3mm longer for applications with E: Matsushita Electric Works or G: Rockwell Automation Contact SMC for details.



operated

Order made

Precautions

Scale: 30%



Note) Dimensions L1 to L4 of SS5Y5-45S1□D-Stations D-c6 are the same as SS5Y5-45S1□D-Stations U-C4



(1.4)쉳 5

мз

9.3

2n-One-touch fitting (A, B port) Applicable tube O.D.: e4

Stations n	2	3	4	5	6	7	8	9	10
L1	173	185.5	210.5	223	235.5	260.5	273	285.5	298
L2	162.5	175	200	212.5	255	250	262.5	275	287.5
L3	105	121	137	153	169	185	201	217	233
L4	13.5	12	16.5	14.5	13	17.5	15.5	14	12

Note) The width of the SI unit will be 24.3mm longer for applications with E: Matsushita Electric Works or G: Rockwell Automation Contact SMC for details.

42.7			(7.5) (DN rail dime 68.1
SS5Y5-45S1	D-Stations B-C6 C8	2n-One-tough fitting (A, B port) Applicable tube O.D.: a	 4 6
4-One-touch fitting (P. Riport) Applicable tube O.D.: a			93
DNnsi	DIN rall holding screw		0.4)

Manual override (Press down and turn) for a locking type.

L2 (Rail mounting hole pitch: 12.5)

DIN rail holding screw

/Manual override (Press down and turn) for a looking type. L2

(Rail mounting hole pitch: 12.5)

(Station ri) (Station 1)

SS5Y5-45S1 \square D-Stations U- $\frac{C4}{C6}$

DIN rail release button

2-One-touch fitting (P. R port)

DIN rail

143 25.6

Block separator button

(push type)

able tube O.D.: ¢10

98

Stations n	2	3	4	5	6	7	8	9	10
L1	198	210.5	223	235.5	260.5	273	285.5	310.5	323
L2	187.5	200	212.5	225	250	262.5	275	300	312.5
L3	123	139	155	171	187	203	219	235	251
L4	17	15.5	13.5	12	16.5	14.5	13	17.5	15.5
Stations n	11	12	12	1/	15	16			

Stations n	11	12	13	14	15	16
L1	335.5	348	373	385.5	398	410.5
L2	325	337.5	362.5	375	387.5	400
L3	267	283	299	315	331	347
L4	14	12	16.5	15	13	11.5

Note) The width of the SI unit will be 24.3mm longer for applications with E: Matsushita Electric Works or G: Rockwell Automation Contact SMC for details.

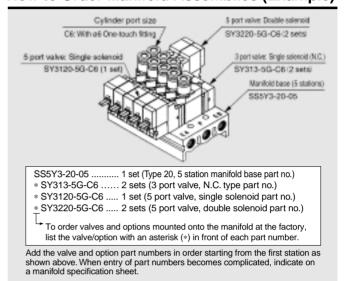
SY300/5000 3 Port Valve/Mixed Mounting Style on 5 Port valve Manifold

3 port valve can be mounted on manifol for 5 port valve.

Applicable Manifolds

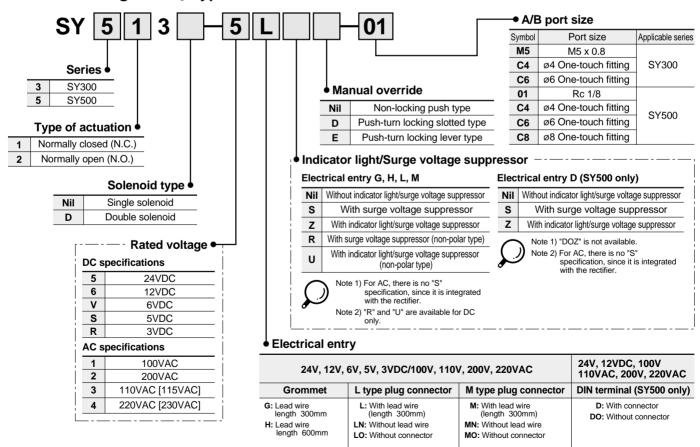
Can be mounted on all manifold types in series SY3000/5000. For manifold part numbers, refer to "How to Order Manifold" pages for each series.

How to Order Manifold Assemblies (Example)



Body Ported/How to Order Valves

Individual wiring: SS5Y₅-Type 20



Note 1) "LN" and "MN" include 2 sockets.

Note 2) "D" and "DO" are not available for SY300.

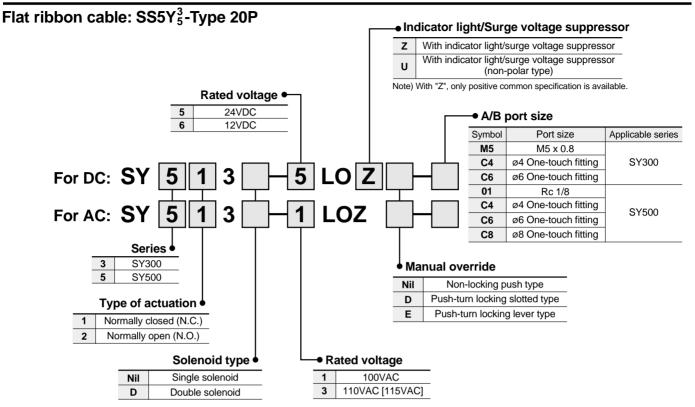
Note 3) DIN43650C standard DIN terminal "Y" is also available. Refer to page 189 for details.



Note) When single body ported solenoid valves are ordered, manifold mounting bolts and gaskets are not included. Order them separately if necessary. (Refer to page 56 for details.)



Body Ported/How to Order Valves



Base Mounted/How to Order Valves

AC specifications

1 2

3

4

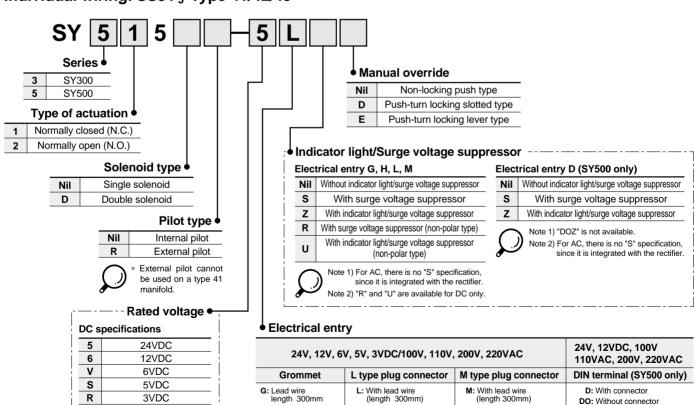
100VAC

200VAC

110VAC [115VAC]

220VAC [230VAC]





多SMC

Note 2) "D" and "DO" are not available for SY300.

Note 1) "LN" and "MN" include 2 sockets

LN: Without lead wire

LO: Without connector

Note 3) DIN43650C standard DIN terminal "Y" is also available. Refer to page 189 for details.

MN: Without lead wire

MO: Without connector

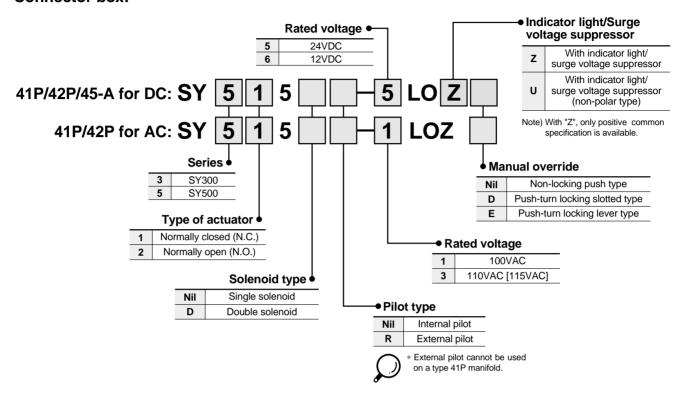
H: Lead wire

length 600mm

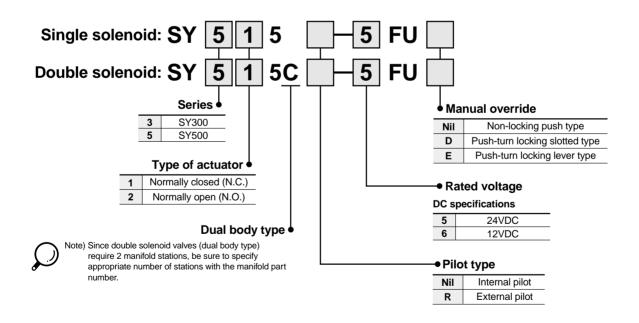
operated

Base Mounted/How to Order Valves

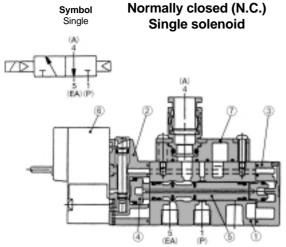
Flat ribbon cable: SS5Y₅-Type 41P/42P/45-A

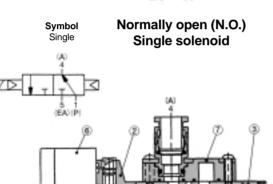


Plug-in: SS5Y₅³-Type 45□

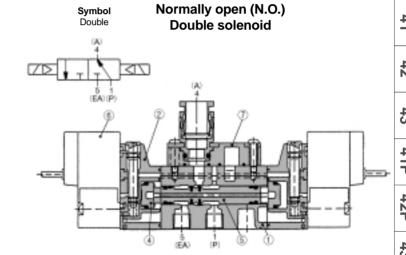


Construction





Symbol Double Solenoid Normally closed (N.C.) Double solenoid



Parts list

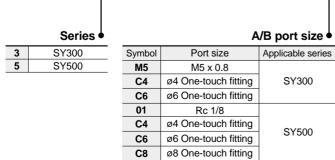
SY

No.	Description	Material	Note
1	Body	Die-cast aluminum (SY300 is die-cast zinc.)	White
2	Adaptor plate	Resin	White
3	End plate	Resin	White
4	Piston	Resin	_
5	Spool valve assembly	Aluminum/NBR	_

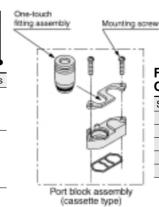
Replacement parts

No.	Description	Part no.		
6	Pilot valve assembly	Refer to "How to Order Pilot Valve Assemblies" on page 5.		
7	Port block assembly	Refer to "How to Order Port Block Assemblies" below.		

How to Order Port Block Assemblies



00 - 2A



For replacement of	
One-touch fitting assembly only	

Symbol	Part no.	Applicable series	
C4	VVQ1000-50A-C4	SY300	
C6	VVQ1000-50A-C6	31300	
C4	VVQ1000-51A-C4		
C6	VVQ1000-51A-C6	SY500	
C8	VVQ1000-51A-C8		

Specifications

Dimensions, specifications, solenoid specifications, response time, and effective area are the same as 5 port valves.

Weights

Models/Series SY300

Valve model	Type	Weight g			
valve model	of actuation	Grommet	L/M type plug connector		
SY3□3-□□-M5	Single	48	51		
3 t 3 L 3 - L L - IVI 3	Double	63	70		
SY3□3-□□-C4	Single	53	57		
313_34	Double	68	75		
000000000000000000000000000000000000000	Single	51	55		
SY3□3-□□-C6	Double	66	73		
CV2DE DD	Single	44	48		
SY3□5-□□	Double	59	66		

Models/Series SY300

Valve model	Туре	Weight g					
valve model	of actuation	Grommet	L/M type plug connector	DIN terminal			
CVED2 D 04	Single	66	70	93			
SY5□3-□-01	Double	81	89	135			
SY5□3-□-C4	Single	79	80	103			
5 t 5 □ 3- □ - C 4	Double	94	98	144			
SY5□3-□-C6	Single	76	75	98			
313⊔3-⊔-C6	Double	91	94	140			
SY5□3-□-C8	Single	72	82	105			
313L3-L-C0	Double	87	101	147			
SY5□5-□□	Single	52	56	79			
313_5	Double	67	74	120			

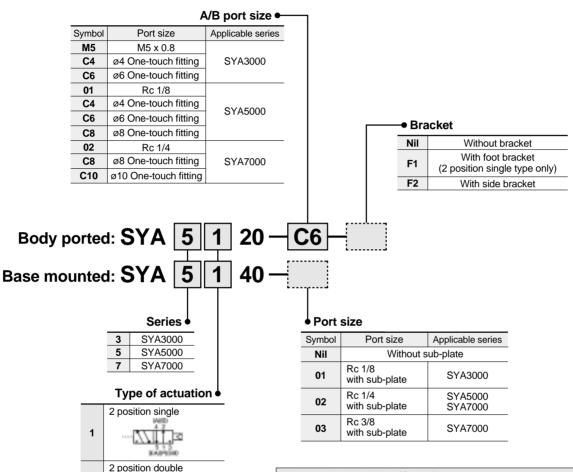


ets Precautions

162



How to Order



2

3

5

3 position closed center

3 position exhaust center

3 position pressure center

How to Order Manifold Bases

Manifolds identical to the non-plug-in type manifolds for series SY are used. (Applicable to types 20, 41, 42, and 45)

SS5YA $\frac{3}{5}$ Specify the order as for SS5Y $\frac{3}{7}$.

* Add the valve and option part numbers in order.

<Example>

SS5YA5-42-03-02 1 set (Type 42, 3 station manifold base part no.)

* SYA5140 1 set (Single air operated valve part no.)

*SY5000-26-2A1 set (Blanking plate assembly part no.)

To order valves and options mounted onto the manifold at the factory, list the valve/option with an asterisk (*) in front of each part number.



Note) When single body ported air operated valves are ordered, manifold mounting bolts and gaskets are not included. Order them separately if necessary. (Refer to page 56 for details.)

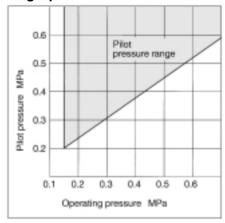
Specifications

Fluid		Air
Operating pressure range MPa Pilot pressure range MPa Ambient and fluid temperatur Manual override Lubrication	2 position single	0.15 to 0.7
	2 position double	0.1 to 0.7
IVIFA	3 position	0.2 to 0.7
	2 position single	(0.7 x P + 0.1) to 0.7P: Operating pressure
	2 position double	0.1 to 0.7
IVIPa	3 position	0.2 to 0.7
Ambient and fluid temperate	ure °C	Maximum 60
Manual override		Non-locking push type
Lubrication		Non-lube
Mounting orientation		Unrestricted
Impact resistance/Vibration	resistance m/s ^{2 Note)}	150/30

Note) Impact resistance: No malfunction resulted from the impact test using a drop impact tester. The test was performed one time each in the axial and right angle directions of the main valve, for both ON and OFF states of the pilot signal. (Value in the initial stage)

Vibration resistance: No malfunction occurred in a one-sweep test between 8.3 and 2000Hz. Test was performed in the axial and right angle directions of the main valve for both ON and OFF states of the pilot signal. (Value in the initial stage)

Pilot pressure range for single pilot



Models/Series SYA3□20 (Body ported)

Valve model T	Type of actuati		ctuation Pilot		t size	Effective area mm² (Cv factor) Note)		Weight g
			port size	P, EA, EB	A, B	P to A/B	A/B to EA/EB	. roigin g
2.	position	Single				2.0 (0.2)	2.70 (0.24)	35
2	position	Double				3.6 (0.2)	3.78 (0.21)	37
SYA3□20-M5		Closed center			M5 x 0.8	3.6 (0.2)	3.42 (0.19)	
31	position	Exhaust center				3.6 (0.2)	3.78 (0.21) {2.7 (0.15)}	39
		Pressure center				3.96 (0.22) {2.88 (0.16)}	3.6 (0.2)	
2,	position	Single	M5 x 0.8	M5 x 0.8	C4 /ø4 One-touch\	3.42 (0.19)	3.6 (0.2)	44
2	z position	Double						46
SYA3□20-C4	3 position	Closed center				3.42 (0.19)	3.42 (0.19)	
		Exhaust center			\ fitting /	3.42 (0.19)	3.78 (0.21) {2.7 (0.15)}	48
		Pressure center				3.6 (0.2) {2.16 (0.12)}	3.6 (0.2)	
2.		Single				0.0 (0.0)	4.4.4 (0.00)	40
2	position	Double				3.6 (0.2)	4.14 (0.23)	42
SYA3□20-C6		Closed center			C6 /ø6 One-touch\	3.6 (0.2)	3.96 (0.22)	
	position	Exhaust center			\ fitting /	3.78 (0.21)	4.5 (0.25) {3.06 (0.17)}	44
		Pressure center				3.96 (0.22) {2.88 (0.16)}	3.96 (0.22)	





Note) Values inside $\{\ \}$ are for normal position.

Models/Series SYA3□40 (Base mounted)

Makes as a dal	T 6 -	-tt'	Pilot	5	Effective area mm² (Cv factor) Note 1)		14/-:
Valve model	Type of a	ctuation	port size	Port size	P to A/B	A/B to EA/EB	Weight g Note 2)
	2 position	Single		Rc 1/8	4.96 (0.27)	5.4 (0.3)	69 (34)
	2 position	Double	M5 x 0.8		4.86 (0.27)	3.4 (0.3)	71 (36)
SYA3□40-01	3 position	Closed center			4.68 (0.26)	4.86 (0.27)	
		Exhaust center			4.86 (0.27)	5.94 (0.33) {3.24 (0.18)}	73 (38)
		Pressure center			6.66 (0.37) {3.24 (0.18)}	5.22 (0.29)	1



Note 1) Values inside $\{\ \}$ are for normal position. Note 2) Values inside $(\)$ are for valves without sub-plate.





Models/Series SYA5□20 (Body ported)

\/ab	Tuna	of a struction	Pilot	Port	size	Effective area mr	Weight g	
Valve model	Type o	of actuation	port size	P, EA, EB A, B		P to A/B	A/B to EA/EB	weight g
	2 position	Single				9.18 (0.15)	10.6 (0.59)	58
	2 position	Double				` ,		64
SYA5□20-01		Closed center			Rc 1/8	7.38 (0.41)	7.92 (0.44)	
	3 position	Exhaust center				7.56 (0.42)	12.06 (0.67) {8.28 (0.46)}	69
		Pressure center				10.62 (0.59) {4.32 (0.24)}	8.46 (0.47)	
	2 position	Single				F F (0.24)	2.0 (0.20)	82
	2 position	Double		Rc 1/8	C4	5.5 (0.31)	3.9 (0.22)	87
SYA5□20-C4	3 position	Closed center			(ø4 One-touch) fitting	5.3 (0.29)	3.9 (0.22)	93
		Exhaust center				5.3 (0.29)	3.9 (0.22)	
		Pressure center	M5 x 0.8			5.7 (0.32)	3.9 (0.22)	
	2 position	Single				9 (0.5)	9 (0.5)	76
		Double						82
SYA5□20-C6		Closed center			Ø6 One-touch	7.2 (0.4)	7.38 (0.41)	
	3 position	Exhaust center			fitting /	7.38 (0.41)	9.72 (0.54) {7.2 (0.4)}	87
		Pressure center				10.62 (0.59) {4.32 (0.24)}	7.2 (0.4)	
	Onseitien	Single				0.40 (0.54)	0.0 (0.55)	68
	2 position	Double			C8	9.18 (0.51)	9.9 (0.55)	74
SYA5□20-C8		Closed center			/ø8 One-touch	7.38 (0.41)	7.92 (0.44)	
	3 position	Exhaust center		fitting /	7.38 (0.41)	11.88 (0.66) {7.74 (0.43)}	79	
		Pressure center				10.62 (0.59) {4.32 (0.24)}	7.92 (0.44)	



Note) Values inside $\{\ \}$ are for normal position.

Models/Series SYA5□40 (Base mounted)

Value me	Value model	Type	of actuation	Pilot	David alies	Effective area mr	Majaht a Note 2)		
	Valve model	Type	Type of actuation		Port size	P to A/B	A/B to EA/EB	Weight g Note 2)	
		2 position	Single	M5 x 0.8		12.78 (0.71)	12.6 (0.7)	105 (42)	
			Double		Rc 1/4		12.6 (0.7)	110 (47)	
	SYA5□40-02		Closed center			7.56 (0.42)	8.1 (0.45)		
		3 position	Exhaust center			7.92 (0.44)	14.4 (0.8) {9 (0.5)}	115 (52)	
			Pressure center			15.84 (0.88) {4.5 (0.25)}	8.64 (0.48)	1	



Note 1) Values inside { } are for normal position.

Note 2) Values inside () are for valves without sub-plate.

Models/Series SYA7□20 (Body ported)

Valve model	Type of actuation		Pilot	Port	size	Effective area mr	n² (Cv factor) Note)	Weight g
valve model			port size	P, EA, EB	A, B	P to A/B	A/B to EA/EB	weight g
	2 position	Single				40.0 (0.0)	45 00 (0.07)	132
	2 position	Double				16.2 (0.9)	15.66 (0.87)	177
SYA7□20-02		Closed center			Rc 1/4	12.06 (0.67)	11.34 (0.63)	
	3 position	Exhaust center				11.88 (0.66)	16.74 (0.93) {11.7 (0.65)}	186
		Pressure center		P port:		17.1 (0.95) {11.16 (0.62)}	11.34 (0.63)	
	2 position 3 position	Single		Rc 1/4 EA, EB ports: Rc 1/8	C8 /ø8 One-touch	13.86 (0.77)	13.68 (0.76)	138
		Double	Rc 1/8					183
SYA7□20-C8		Closed center				11.52 (0.64)	10.44 (0.58)	
		Exhaust center				11.16 (0.62)	14.4 (0.8) {10.8 (0.6)}	192
		Pressure center				14.58 (0.81) {10.62 (0.59)}	10.44 (0.58)	1
	O monition	Single				45.04 (0.00)	1101(000)	135
	2 position	Double			C10	15.84 (0.88)	14.94 (0.83)	180
SYA7□20-C10		Closed center			/ø10 One-touch\	12.24 (0.68)	11.16 (0.62)	
	3 position	Exhaust center			fitting /	11.88 (0.66)	16.2 (0.89) {11.34 (0.63)}	189
	-	Pressure center				16.74 (0.93) {11.16 (0.62)}	11.34 (0.63)	

Note) Values inside { } are for normal position.

Models/Series SYA7 □ 40 (Base mounted)

Valve model	Type of actuation		Pilot port size	Port size	Effective area mm² (Cv factor) Note 1)		Weight a Note 2)
valve model					P to A/B	A/B to EA/EB	weight g ····
SYA7□40- 02 03	2 position	Single	Rc 1/8	Rc 1/4 Rc 3/8	23.22 (1.29)	21.6 (1.2)	240 (111)
		Double					286 (157)
	3 position	Closed center			14.04 (0.78)	12.24 (0.68)	294 (165)
		Exhaust center			14.04 (0.78)	20.88 (1.16) {12.96 (0.72)}	
		Pressure center			24.48 (1.36) {13.5 (0.75)}	12.42 (0.69)	



Note 1) Values inside $\{\ \}$ are for normal position and port size of Rc 3/8.

Note 2) Values inside () are for valves without sub-plate.



valve 20

e Type T

oe Single Telescope Single

42

9e Type 3 41P

1ype 42P

43P 4

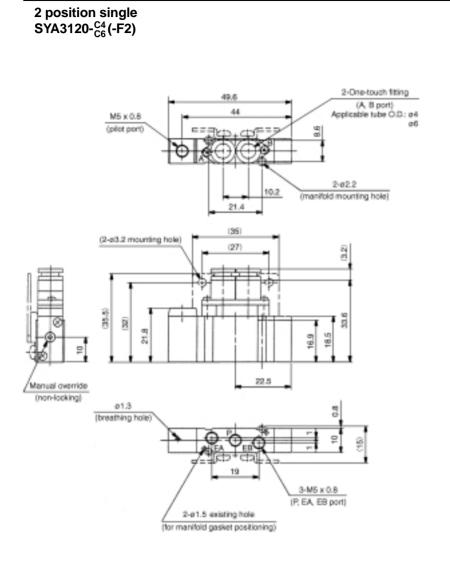
e Type 45-%

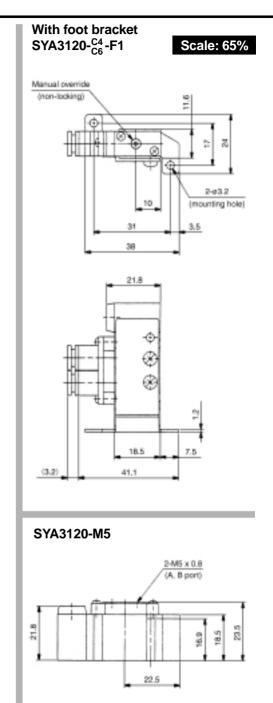
ort Air operate

made

Manifold spec. sheets

Series SYA3000 (Body Ported) Dimensions





Single valve

20 20

e Type 20P

Type Sing

le Type e 41

42 I y

e Type 41P

P 43P

45 45

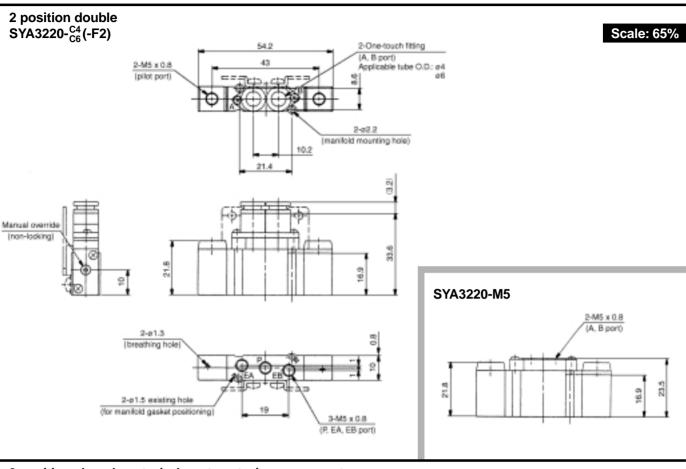
45

3 port

Air Order erated made

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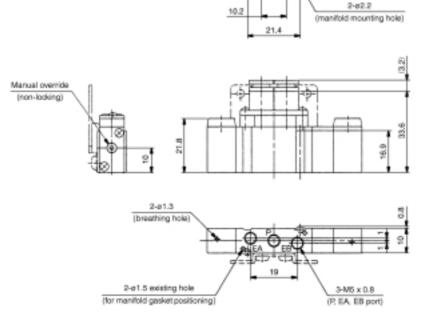
c. Precautions

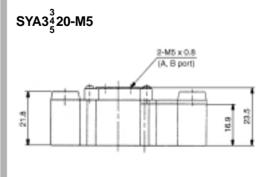


2-One-touch fitting (A, B port) Applicable tube O.D.: ø4

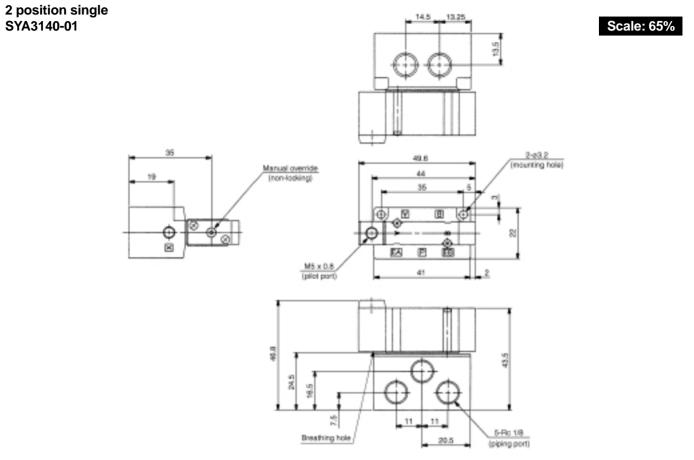
3 position closed center/exhaust center/pressure center SYA3 $_{5}^{3}$ 20- $_{C6}^{C4}$ (-F2)

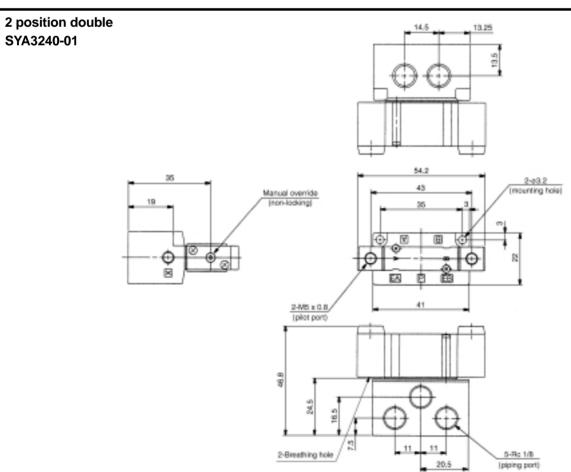
2-M5 x 0.8 (pilot port) 27.1





Series SYA3000 (Base Mounted) Dimensions



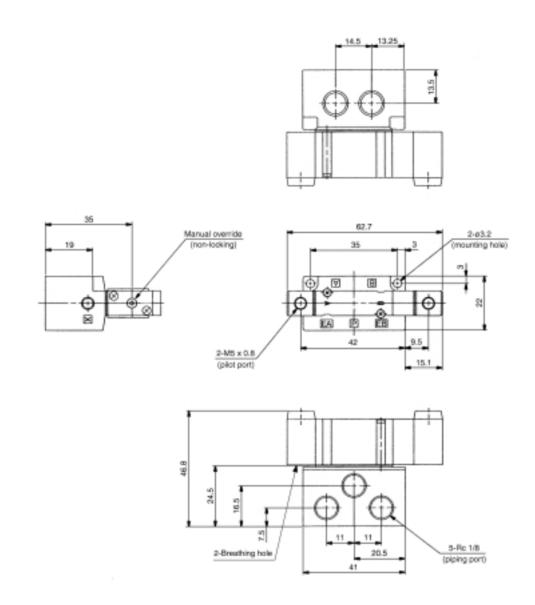


Precautions

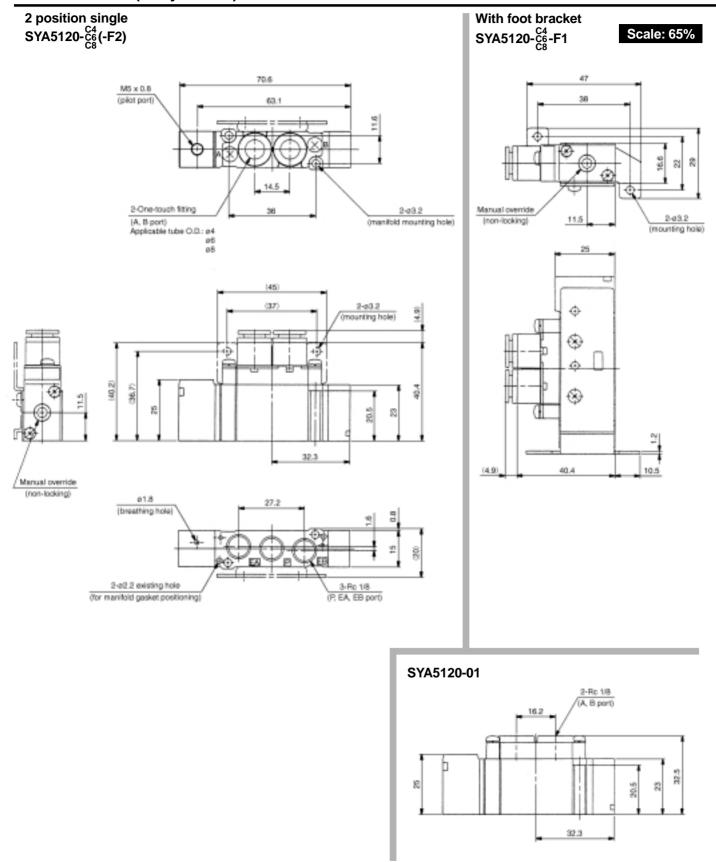
168

3 position closed center/exhaust center/pressure center SYA3 $\frac{3}{4}$ 40-01

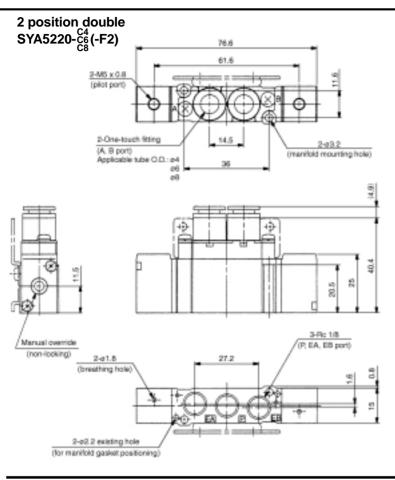
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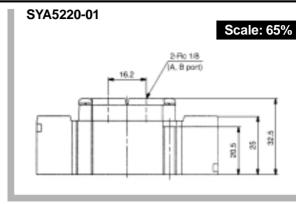


Series SYA5000 (Body Ported) Dimensions

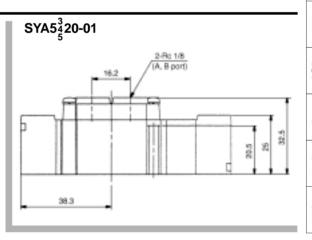


Single valve





3 position closed center/exhaust center/pressure center SYA5 $_{5}^{3}$ 20- $_{5}^{C4}$ (-F2) 43.4 2-M5 x 0.8 (pilot port) 2-One-touch fitting 2-Onti-ross [A, B part) Applicable tube O.D.: p4 p6 p8 2-03.2 2-03.2 (mounting hole) 43 40.4 8 8 20.5 38.3 /Manual override (non-looking) 2-01.8 (breathing hole) 2-e2.2 existing hole 3-Rc 1/6 (for manifold gasket positioning) (P, EA, EB port)

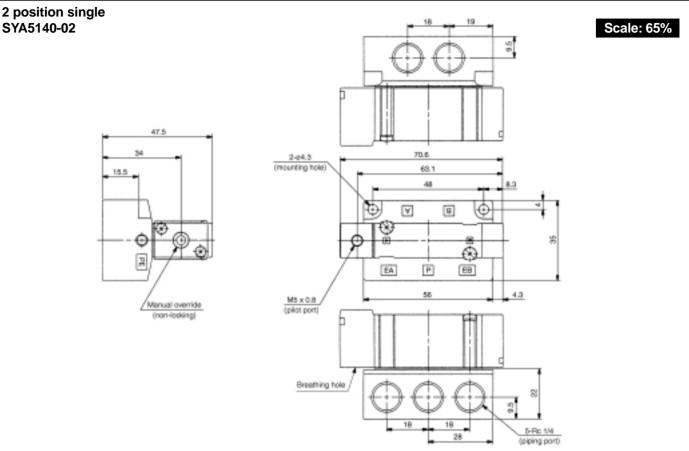


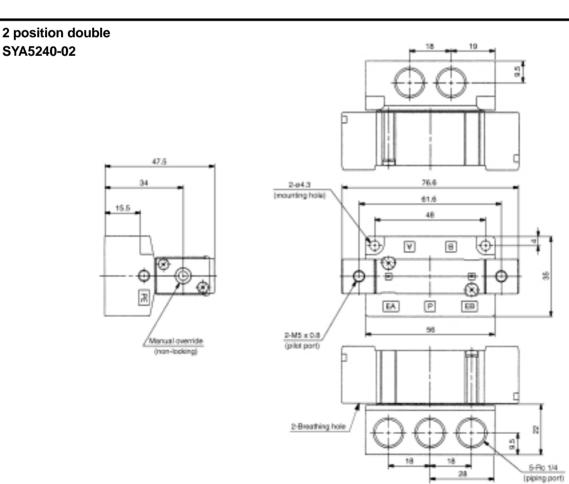
Order of made

Manifold Spec. Precautions

SMC

Series SYA5000 (Base Mounted) Dimensions



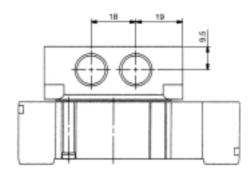


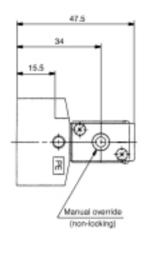
SYA5240-02

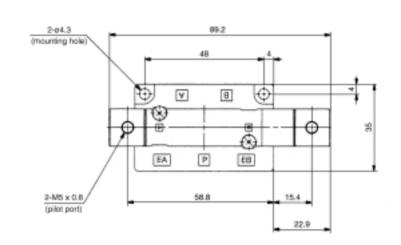
Precautions

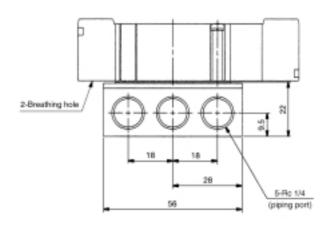
3 position closed center/exhaust center/pressure center SYA5³/₅40-02

Scale: 65%



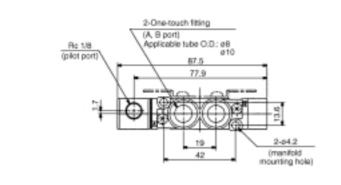


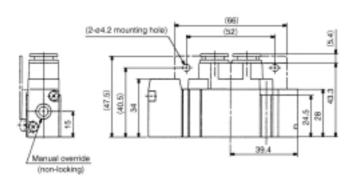


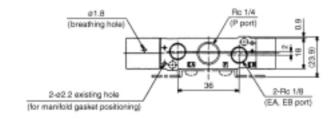


Series SYA7000 (Body Ported) Dimensions

2 position single SYA7120-^{C8}_{C10}(-F2)

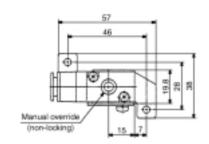


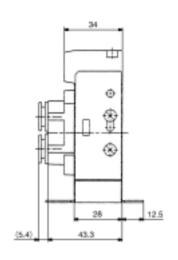




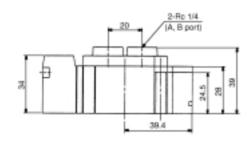
With foot bracket SYA7120-C8 -F1





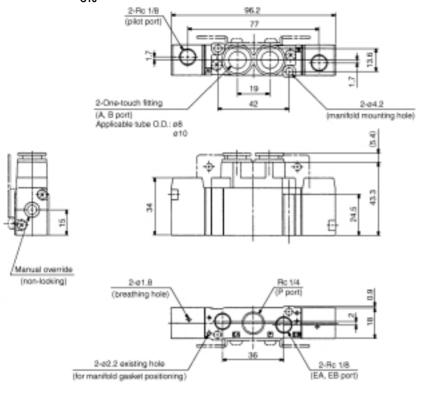


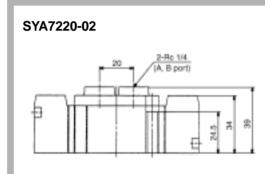
SYA7120-02



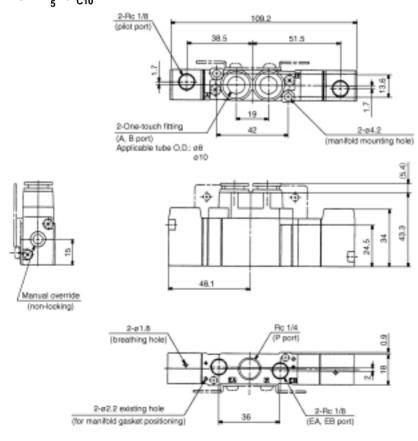
2 position double SYA7220-C8

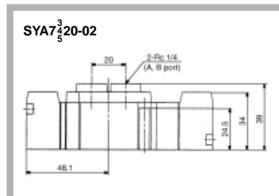
Scale: 45%





3 position closed center/exhaust center/pressure center SYA7 $_{5}^{3}20\text{-}_{\text{C10}}^{\text{C8}}$





Single Type valve 20

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Type Si 23P vi

e Type

42 I

9e 1ype 3 41P

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3 port valve op

ort Air operated

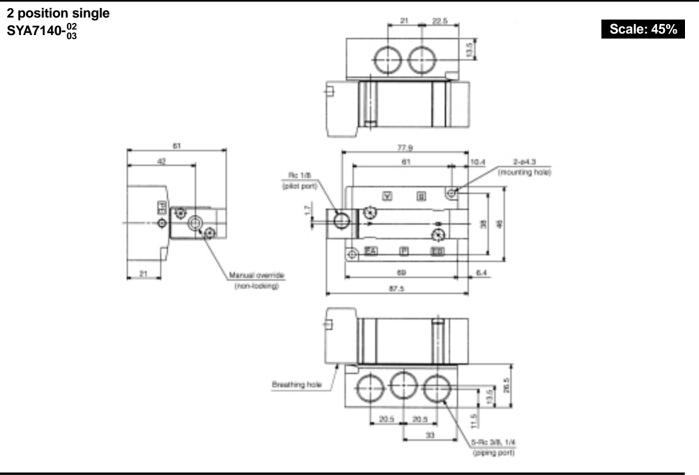
Order M

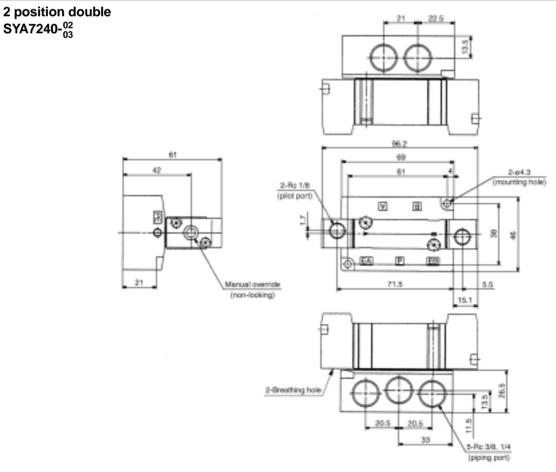
Manifold spec. sheets

Precautions



Series SYA7000 (Base Mounted) Dimensions





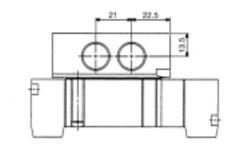
Type 45□

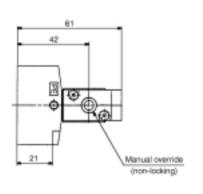
Manifold spec.

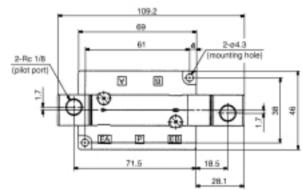
Precautions

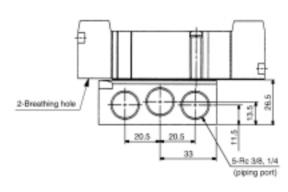
3 position closed center/exhaust center/pressure center SYA7 $_{5}^{4}$ 40- $_{03}^{02}$

Scale: 45%











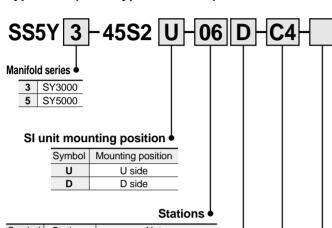
Order Made Specifications SY3000/5000 Serial Type with SMC IN313



Serial transmission manifold equipped with SMC's IN313.

How to Order Manifolds

Type 45S2 (Serial type with IN313)



Symbol	Stations	Note
02	2 stations	Single wiring specification
:	:	(Up to 16 solenoids applicable)
16	16 stations	(Op to 10 soleriolds applicable)



Note 1) Includes the number of blanking plate assemblies.

Note 2) Two manifold stations are required for double solenoid 3 position valves (dual body type).

SUP/EXH block cassembly mounting position

Symbol	Mounting position	Applicable stations		
U	U side	2 to 10 stations		
D	D side	2 to 10 stations		
В	Both sides	2 to 16 stations		
M*	Special specifications			

For special specifications, order separately on a manifold specification sheet.

A/B port size

SY3000

0.0000				
Symbol	Port size			
C4	ø4 One-touch fitting			
C6	ø6 One-touch fitting			
M*	Mixed			

SY5000

Symbol	Port size	
C4	ø4 One-touch fitting	
C6	ø6 One-touch fitting	
C8	ø8 One-touch fitting	
M*	Mixed	

^{*} For mixed specifications, order separately on a manifold specification sheet.

Option

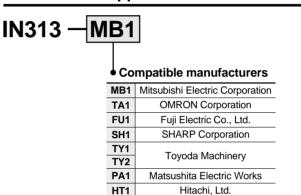
When a DIN rail longer than the specified stations is necessary, indicate the number of required stations. (Max. 20 stations)

For the external pilot specification and built-in silencer type, refer to page 184.

How to Order Applicable SI Units

AB1

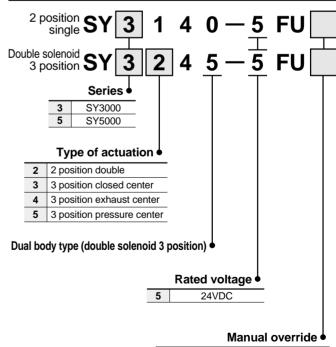
TS1



Rockwell Automation

Toshiba Corporation

How to Order Valves



Nil	Non-locking push type
D	Push-turn locking slotted type
E	Push-turn locking lever type

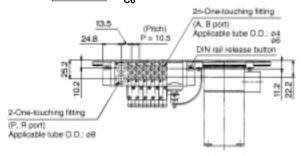


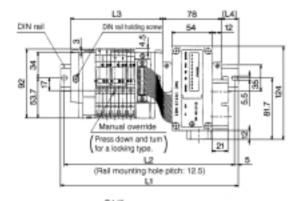
Single valve

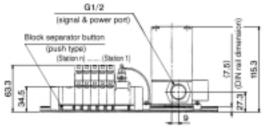
Scale: 20%

SY3000: Serial Transmission/Plug-in

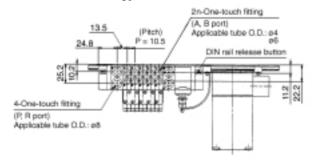
SS5Y3-45S2D-Stations U-C4

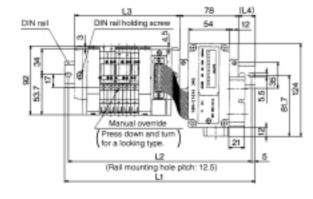






SS5Y3-45S2U-Stations B-C4







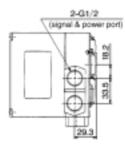
Note) Dimensions L1 to L4 of

SS5Y3-45S2D- Stations D-C4

SS5Y3-45S2U-Stations D- $^{C4}_{C6}$, and

SS5Y3-45S2U-Stations U-C4 are the same as

SS5Y3-45S2D-Stations U-C4



Stations n	2	3	4	5	6	7	8	9	10
L1	198	210.5	223	235.5	235.5	248	260.5	273	285.5
L2	187.5	200	212.5	225	225	237.5	250	262.5	275
L3	91.5	102	112.5	123	133.5	144	154.5	165	175.5
L4	14	15	16	17	12	13	14	15	16



Note) Dimensions L1 to L4 of SS5Y3-45S2U-Stations B^{C4}_{C6} are the same as SS5Y3-45S2D-Stations B^{C4}_{C6} .

Stations n	2	3	4	5	6	7	8	9
L1	210.5	223	235.5	248	260.5	273	273	285.5
L2	200	212.5	225	237.5	250	262.5	262.5	275
L3	108	118.5	129	139.5	150	160.5	171	181.5
L4	12	13	14	15	16	17	12	13
Stations n	10	11	12	13	14	15	16	
Stations n	10 298	11 310.5	12 323	13 335.5	14 335.5	15 348	16 360.5	
	-							
L1	298	310.5	323	335.5	335.5	348	360.5	

3 port Air valve opera

Order made

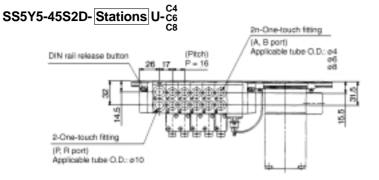
Manifold spec. sheets

Precautions



Type **45S2**

SY5000: Serial Transmission/Plug-in





Scale: 20%

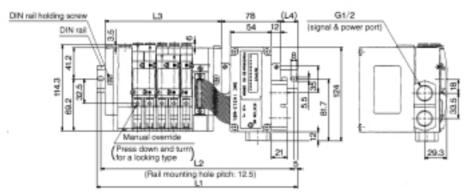
Note) Dimensions L1 to L4 of

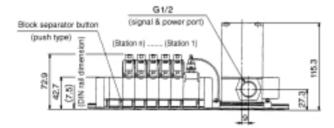
SS5Y5-45S2D-Stations D-C4 C8,

SS5Y5-45S2U-Stations D-C6, and

SS5Y5-45S2U-Stations U- $^{\text{C4}}_{\text{C8}}$ are the same as

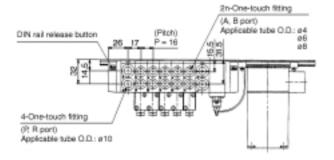
SS5Y5-45S2D-Stations U-C4.

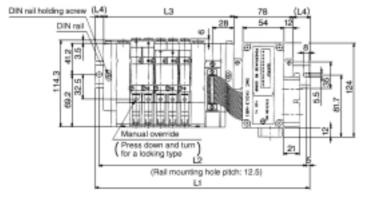




Stations n	2	3	4	5	6	7	8	9	10
L1	210.5	223	248	260.5	273	298	310.5	323	335.5
L2	200	212.5	237.5	250	262.5	287.5	300	312.5	325
L3	105	121	137	153	169	185	201	217	233
L4	13.5	12	16.5	14.5	13	17.5	15.5	14	12

SS5Y5-45S2U-Stations B-C6





Stations n	2	3	4	5	6	7	8	9
L1	235.5	248	260.5	273	298	310.5	323	348
L2	225	237.5	250	262.5	287.5	300	312.5	337.5
L3	123	139	155	171	187	203	219	235
L4	17	15.5	13.5	12	16.5	14.5	13	17.5
Stations n	10	11	12	13	14	15	16	
L1	360.5	373	385.5	410.5	423	435.5	460.5	
L2	350	362.5	375	400	412.5	425	450	
L3	251	267	283	299	315	331	347	

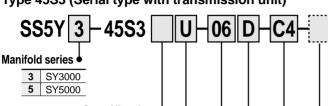
Order Made Specifications SY3000/5000 Serial Type with

OMRON G71-OD16

Serial transmission manifold equipped with OMRON'S G71-OD16.

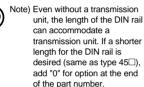
How to Order Manifolds

Type 45S3 (Serial type with transmission unit)



Specification 4

Symbol	Specification
Nil	With transmission unit
O ^{Note)}	Without transmission unit



Transmission unit mounting position

Symbol	Mounting position
U	U side
D	D side

Stations

Symbol	Stations	Note
02	2	Single wiring apositiontion
:	::	Single wiring specification (Up to 16 solenoids applicable)
16	16	(Op to 10 sole lolus applicable)



Note 1) Includes the number of blanking plate

Note 2) Two manifold stations are required for double solenoid 3 position valves (dual body type).

SUP/EXH block assembly mounting position

Symbol	Mounting position	Applicable stations		
U	U side	2 to 10 stations		
D	D side	2 to 10 stations		
В	Both sides	2 to 16 stations		
М*	Special specifications			

* For special specifications, order separately on a manifold specification sheet

A/B port size

SY3000

U .
Port size
ø4 One-touch fitting
ø6 One-touch fitting
Mixed

SY5000

Symbol	Port size
C4	ø4 One-touch fitting
C6	ø6 One-touch fitting
C8	ø8 One-touch fitting
M*	Mixed

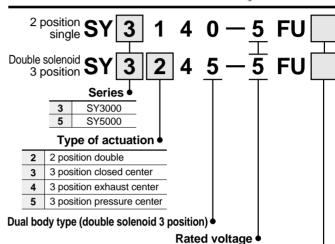
* For mixed specifications, order separately on a manifold specification sheet.

Option •

When a DIN rail longer than the specified stations is necessary, indicate the number of required stations. (Max. 20 stations)



How to Order Valves



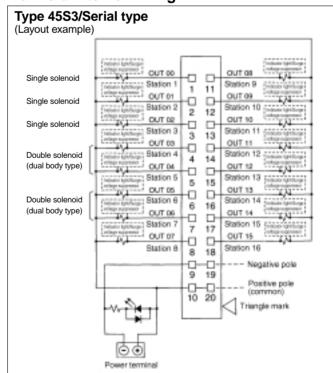
5

Manual override

	Marida Override •
Nil	Non-locking push type
D	Push-turn locking slotted type
E	Push-turn locking lever type

24VDC

Manifold internal wiring



Note 1) For OMRON transmission terminal specifications, refer to the instruction manual or catalog of the transmission terminal

Note 2) A maximum of 16 solenoids can be used. Contact SMC if more than 16 solenoids are

⚠ Caution

Wiring specifications of SS5Y 5-45S30 differ from SS5Y 5-45PG.



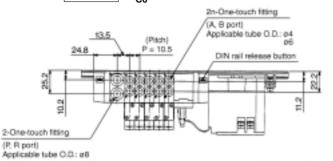
180

Precautions

Type **45S**3

SY3000: Serial Transmission/Plug-in

SS5Y3-45S3D-Stations U-C4





Scale: 25%

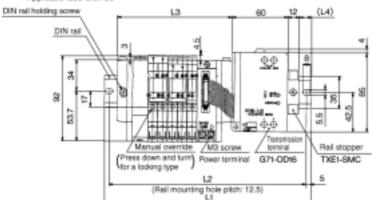
Note) Dimensions L1 to L4 of

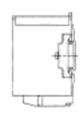
SS5Y3-45S3D-Stations D-C4,

SS5Y3-45S3U-Stations D-C4, and

SS5Y3-45S3U-Stations U- $^{\text{C4}}_{\text{C6}}$ are the same as

SS5Y3-45S3D-Stations U-C4.

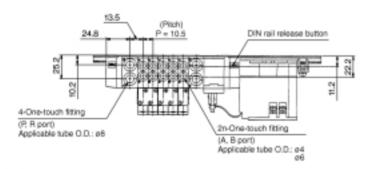




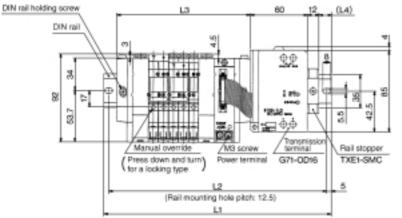
	(Station ri) (Station 1)	Ē-
		161
833		
۰	98	ž.
- 4		<u>e .</u>

Stations n	2	3	4	5	6	7	8	9	10
L1	198	198	210.5	223	235.5	248	260.5	260.5	273
L2	187.5	187.5	200	212.5	225	237.5	250	250	262.5
L3	91.5	102	112.5	123	133.5	144	154.5	165	175.5
L4	17	12	13	14	15	16	17	11.5	12.5

SS5Y3-45S3D-Stations B-C4



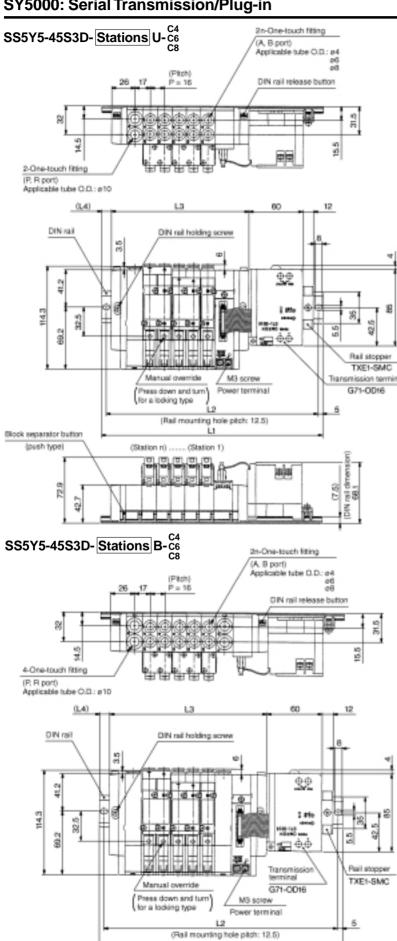
Note) Dimensions L1 to L4 of SS5Y3-45S3U-Stations B_{-C6}^{-C4} are the same as SS5Y3-45S3D-Stations B_{-C6}^{-C4} .



Stations n	2	3	4	5	6	7	8	9
L1	210.5	223	235.5	235.5	248	260.5	273	285.5
L2	200	212.5	225	225	237.5	250	262.5	275
L3	108	118.5	129	139.5	150	160.5	171	181.5
L4	15	16	17	12	13	14	15	16
- · · ·								-
Statione n	1 1()	111	1 12	12	11/	15	16	
Stations n	10	11	12	13	14	15	16	
Stations n	298	11 298	12 310.5	13 323	14 335.5	15 348	16 360.5	
	-			-		-		
L1	298	298	310.5	323	335.5	348	360.5	

Single valve

SY5000: Serial Transmission/Plug-in



Lt

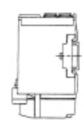


Scale: 25%

Note) Dimensions L1 to L4 of SS5Y5-45S3D-Stations D-C6

SS5Y5-45S3U-Stations D-C6, and

SS5Y5-45S3U-Stations U- $\frac{C4}{C8}$ are the same as SS5Y5-45S3D- Stations U-C4



Stations n	2	3	4	5	6	7	8	9	10
L1	210.5	223	235.5	260.5	273	285.5	298	323	335.5
L2	200	212.5	225	250	262.5	275	287.5	312.5	325
L3	105	121	137	153	169	185	201	217	233
L4	16.5	15	13	17.5	16	14	12.5	17	15



Note) Dimensions L1 to L4 of SS5Y5-45S3U-Stations B-ce are the same as SS5Y5-45S3D-Stations B-C4

Stations n	2	3	4	5	6	7	8	9
L1	223	235.5	260.5	273	285.5	310.5	323	335.5
L2	212.5	225	250	262.5	275	300	312.5	325
L3	123	139	155	171	187	203	219	235
L4	14	12	16.5	15	13	17.5	16	14
Stations n	10	11	12	13	14	15	16	
Stations n	10 348	11 373	12 385.5	13 398	14 410.5	15 435.5	16 448	
	_			_		-	_	
L1	348	373	385.5	398	410.5	435.5	448	



182

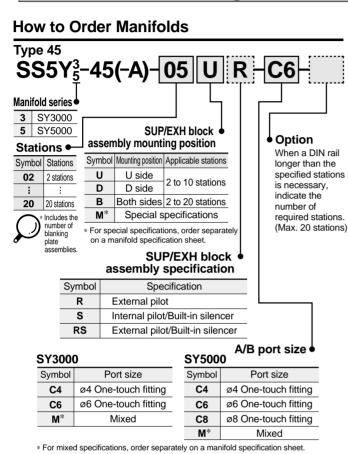
Order Made Specifications SY3000/5000 External pilot and Built-in Silencer



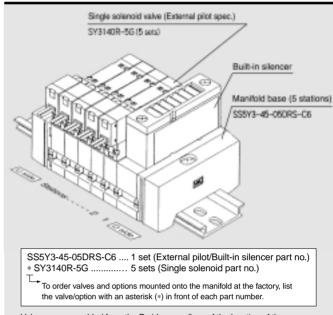
Manifolds with external pilot specification for use with low pressure and vacuum are added to the stacking and DIN rail mount types. Also, a clean appearance is achieved with the built-in silencer.



Individual wiring/Connector box



How to Order Manifold Assemblies (Example)



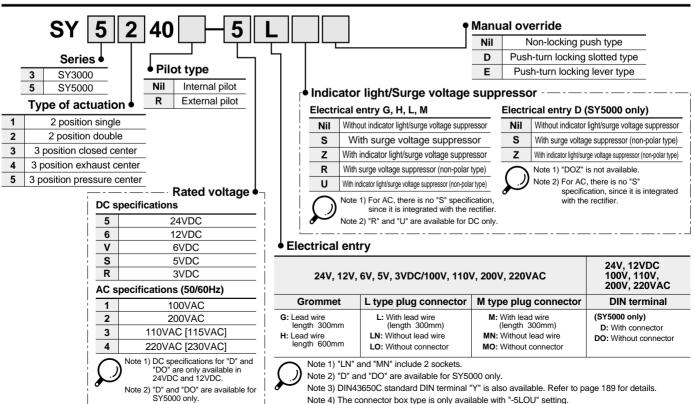
Valves are assembled from the D side regardless of the location of the SUP/EXH block assembly. Make entries in order from station 1 on the D side.

When entry of part numbers becomes complicated, indicate on a manifold specification sheet.

When SUP/EXH block assemblies are mounted on both sides, two pieces of the external pilot and silencer will be mounted on each side.

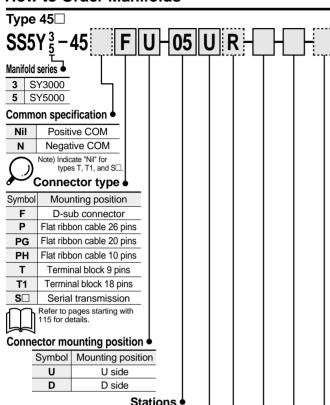
For special applications of the SUP/EXH block, the SUP/EXH block assembly shown on page 105 (SX3/5000-51-1A) is also available. Indicate the part number and mounting positions on a manifold specification sheet in section (b). (Manifold Specification Sheet on pages 201 through 204)

How to Order Valves



Plug-in

How to Order Manifolds



		Otation -
Symbol	Stations	Note
02	2 stations	
•		Single wiring specification
20	20 stations	

 $\sqrt{\sum_{N}^{N}}$

CASUUU

Note 1) Includes the number of blanking plate assemblies.

Note 2) Since the number of stations is limited depending on the connector type, refer to page 118.

Note 3) Two manifold stations are required for double solenoid 3 position valves (dual body type).

SUP/EXH block assembly mounting position •

Symbol	Mounting position	Applicable stations
U	U side	O to 40 stations
D	D side	2 to 10 stations
В	Both sides	2 to 20 stations
M*	Special sp	ecifications

^{*} For special specifications, order separately on a manifold specification sheet.

SUP/EXH block assembly specification

Symbol	Specification
R	External pilot
S	Internal pilot/Built-in silencer
RS	External pilot/Built-in silencer

A/B port size

010000		01000		
	Symbol Port size		Symbol	Port size
	C4 ø4 One-touch fitting		C4	ø4 One-touch fitting
	C6 ø6 One-touch fitting		C6	ø6 One-touch fitting
	M* Mixed		C8	ø8 One-touch fitting
			M*	Mixed

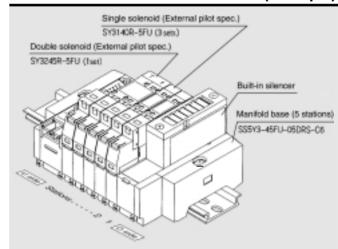
^{*} For mixed specifications, order separately on a manifold specification sheet.

Voltage specification ●

Nil	24VDC
12V	12VDC
Note) Indicate "Nil" for types T, T1, and S□.	

When a DIN rail longer than the specified stations is necessary, indicate the number of required stations. (Max. 20 stations)

How to Order Manifold Assemblies (Example)



SS5Y3-45FU-05DRS-C6 1 set (External pilot/Built-in silencer part no.) * SY3140R-5FU 3 sets (Single solenoid part no.)

* SY3245R-5FU 1 set (Double solenoid part no.)

To order valves and options mounted onto the manifold at the factory, list the valve/option with an asterisk (*) in front of each part number.

Valves are assembled from the D side regardless of the location of the SUP/EXH block assembly. Make entries in order from station 1 on the D side.

When entry of part numbers becomes complicated, indicate on a manifold specification sheet.

When SUP/EXH block assemblies are mounted on both sides, two pieces of the

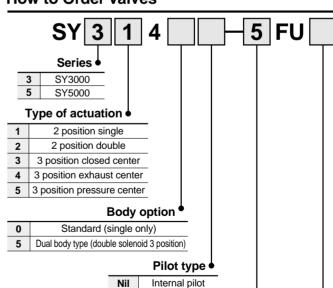
external pilot and silencer will be mounted on each side.

For special applications of the SUP/EXH block, the SUP/EXH block assembly

shown on page 143 (SX3/5000-51-2A) is also available. Indicate the part number and mounting positions on amaifold specification sheet in section (b).

Since double solenoid 3 position valves (dual body type) require 2 manifold stations, be sure to specify the appropriate number of stations with the manifold part number. (Manifold Specification Sheet on pages 205 through 222)

How to Order Valves



R External pilot

5	24VDC
6	12VDC
V *	6VDC
S*	5VDC
R*	3VDC
$\overline{}$. Applies to 4FT/T1 only

)	 * Applies to 45T/T1 only. 24VDC only for type S□.

Rated voltage

Manual override

Nil	Non-locking push type
D	Push-turn locking slotted type
E	Push-turn locking lever type



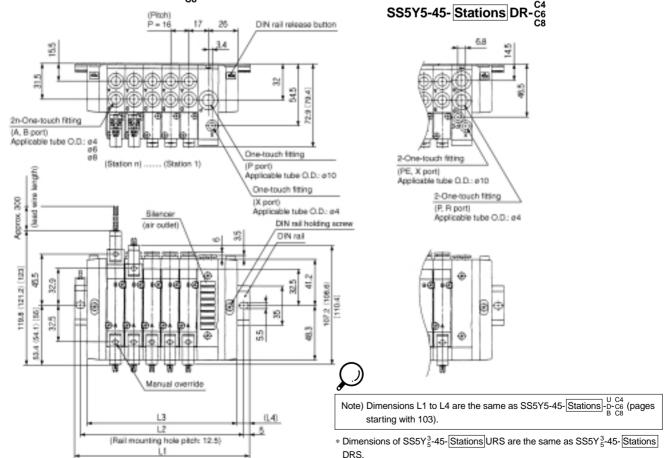
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External Pilot and Built-in Silencer

SY3000: SS5Y3-45-Stations DRS-C4 **Scale: 30%** SS5Y3-45-Stations DR-C4 24.8 2n-One-touch fitting (A, B port) Applicable tube O.D.: a4 One-touch fitting 2-One-touch fitting (P port) Applicable tube O.D.: ø8 (Station in) (Station 1) (PE, X port) Applicable tube O.D.: e4 Арргок. 300 One-touch fitting 2-One-touch fitting Silencer (air outlet) (X port) Applicable tube O.D.: #4 (P. R. port) Applicable tube O.D.: #8 37.3 (96.7) (100.5) 88.B DIN rail DIN rail holding sore (1.4)(Rail mounting hole pitch: 12.5) Note) Dimensions L1 to L4 are the same as SS5Y3-45-Stations -D-C4 (pages starting with 101).

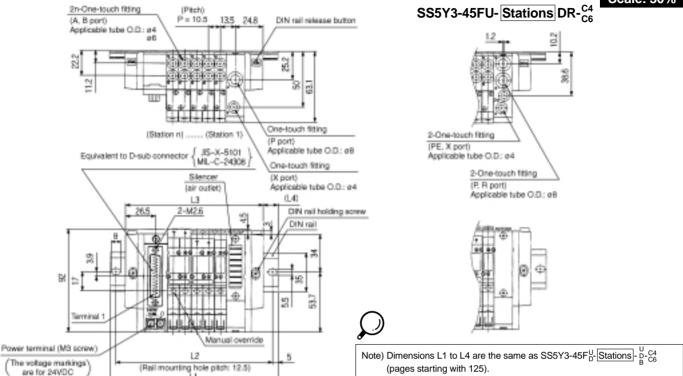
SY5000: SS5Y5-45-Stations DRS-C6 C8



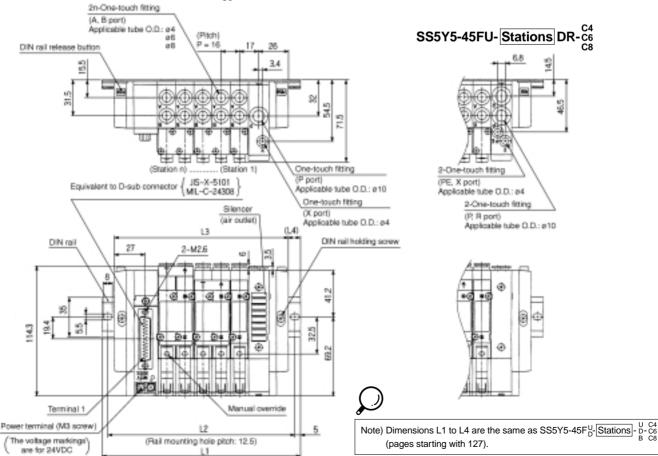
External Pilot and Built-in Silencer



Scale: 30%



SY5000: SS5Y5-45FU-<u>Stations</u> DRS-C6 C8



* Dimensions of SS5Y \$\frac{3}{5}\$-45-\subseteq Stations URS are the same as SS5Y \$\frac{3}{5}\$-45-\subseteq Stations DRS

SMC

port Air alve operated

Order Made

Wanifold spec. sheets

186

Order Made Specifications SY3000/5000 **Mixed Mounting Type**

Non-plug-in

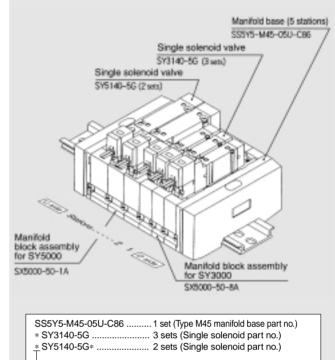
Non-plug-in SY5000 manifold base allows mounting of SY3000.

SY5000: ø8 One-touch fitting

SY3000: Ø6 One-touch fitting

How to Order Manifolds Type M45 (Mixed mounting) SS5Y5-M45-Mixed mounting type Stations • SUP/EXH block Symbol Stations Option assembly mounting position 02 2 stations When a DIN rail Symbol Mounting position Applicable stations longer than the U U side specified stations is 20 20 stations 2 to 10 stations D necessary, indicate D side Includes the the number of number of В Both sides 2 to 20 stations blanking required stations Special specifications plate (Max. 20 stations) assemblies * For special specifications, order separately on a manifold specification sheet. SUP/EXH block assembly specification Specification Symbol Standard/Internal pilot Nil Built-in silencer Note) External pilot specification is not available for the mixed mounting type. A/B port size Port size Port size Symbol Symbol SY5000: ø4 One-touch fitting SY5000: ø6 One-touch fitting C66 C44 SY3000: ø4 One-touch fitting SY3000: Ø6 One-touch fitting SY5000: ø4 One-touch fitting SY5000: Ø8 One-touch fitting C46 SY3000: ø6 One-touch fitting SY3000: ø4 One-touch fitting

How to Order Manifold Assemblies (Example)



\$\$S\$Y5-M45-05U-C86		
To order valves and options mounted onto the manifold at the factory, list the valve/option with an asterisk (*) in front of each part number.		

Valves are assembled from the D side regardless of the location of the SUP/EXH block assembly. Add the valve and option part numbers in order starting from the first station on the D side. When entry of part numbers becomes complicated, indicate on a manifold specification sheet. (Manifold Specification Sheet on pages 227 and 228)

* For mixed specifications, order separately on a manifold specification sheet.

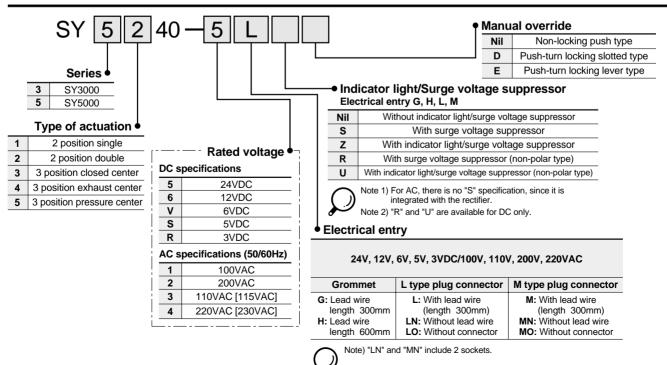
C86

How to Order Valves

C64

SY5000: ø6 One-touch fitting

SY3000: ø4 One-touch fitting





Single valve

|68| |53.8 (56.2)

88 53.4 (54.1) 8

Mixed Mounting Type Dimensions



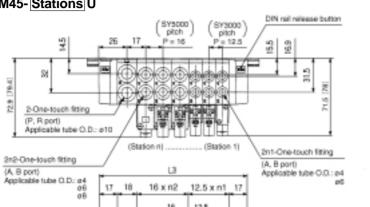
Арргок. 300

Аррган 300

Note) []: Values for AC

< >: Values with surge voltage suppressor

SS5Y5-M45- Stations U



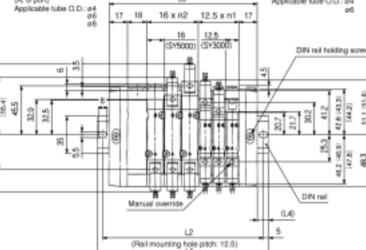
Dimension L: Formulas for dimensions L1 to L4 $L3 = 12.5 \times n1 + 16 \times n2 + 52$ L3 $M = (\frac{2.5}{12.5})$ + 1) omit decimals $L1 = 12.5 \times M + 23$ L2 = L1 - 10.5 L4 = (L1 - L3)/2

Scale: 30%

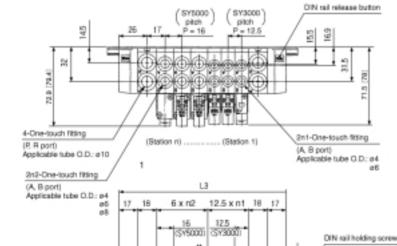
n2: Number of SY5000 stations

n1: Number of SY3000 stations

Note) Dimensions L1 to L4 of SS5Y5-M45-Stations D are the same as SS5Y5-M45-Stations U.



SS5Y5-M45- Stations B



(Rail mounting hole pitch: 12.5)

Dimension L: Formulas for dimensions L1 to L4 $L3 = 12.5 \times n1 + 16 \times n2 + 70$ $L3 = 12.5 \times N1 + 16 \times N2 + 70$ $M = (\frac{L3}{12.5} + 1) \text{ omit decimals}$ $L1 = 12.5 \times M + 23$ L2 = L1 - 10.5 L4 = (L1 - L3)/2

n1: Number of SY3000 stations n2: Number of SY5000 stations

Approx. 300 Sead wire long? Арргок 300

(1.4)

5

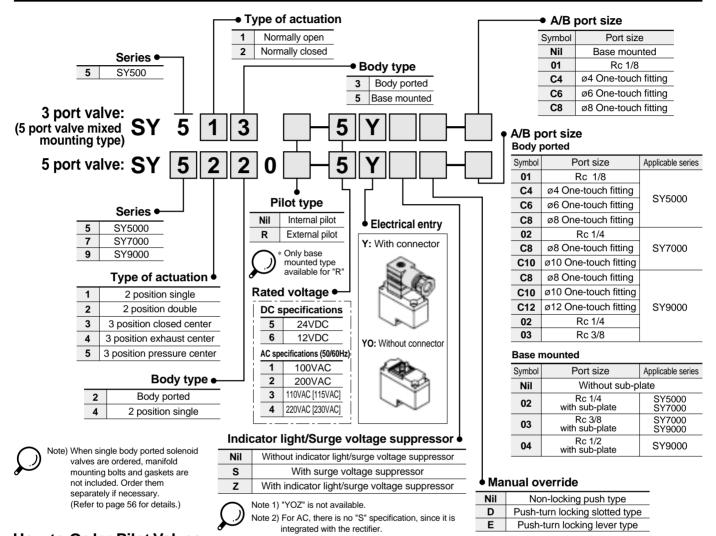
8

Order Made Specifications SY5000/7000/9000/SY500 **DIN Connector** (DIN 43650C Standard)

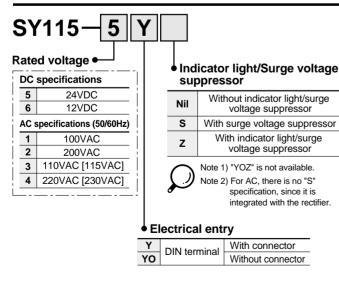
DIN connector type with conformity to DIN43650C (8mm pitch between DIN terminals) standard



How to Order Valves



How to Order Pilot Valves



DIN connector part nos.

Without indicator light SY100-82-1			
With indicator light			
Rated voltage	Rating symbol	Part no.	
24VDC	24VN	SY100-82-3-05	
12VDC	12VN	SY100-82-3-06	
100VAC	100VN	SY100-82-3-01	
200VAC	200VN	SY100-82-3-02	
110VAC (115VAC)	110VN	SY100-82-3-03	
220VAC (230VAC)	220VN	SY100-82-3-04	

Caution

- 1. Use the specified heavy duty vinyl cord (ø3.5 to ø7) to meet the IP65 (enclosure) standard. Also, tighten the ground nut and holding screws within the specified torque range. Refer to page 236 for DIN terminal usage (hints on connecting and changing the outlet, precautions, compatible cables, and circuit diagram).
- Since the pitch between DIN terminals is 9.4mm for the "D" type DIN connector, it is not inter-changeable.
- 3. DIN connectors other than the "D" type have "N" at the end of the rating symbol. (Although "N" is not indicated when the connector is without the indicator light, it can be distinguished by the label.)
- 4. Dimensions are the same as the "D" type DIN connector.
- 5. When replacing only the pilot assembly, SY115-□D and SY115-□Y are interchangeable. However, changing from SY114 (G, L, M) to SY115-□D/□Y (DIN terminal), or vice versa, is not possible

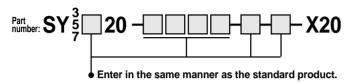


Order Made Specifications SY3000/5000/7000/9000 Body Ported Type with External Pilot Main Valve Fluoro Rubber Specification Energy Saving Solenoid Valve



Body Ported Type with External Pilot

Applicable solenoid valve series: SY3□20, SY5□20, SY7□20



Operating pressure range MPa

Operating pressure range	-100kPa to 0.7	
Pilot pressure range	0.25 to 0.7	

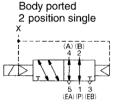
Dimensions

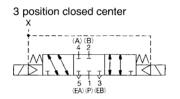
SY3000: Overall length will be 6.5mm longer. SY5000/7000: Overall length will be 10mm longer.

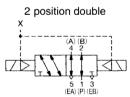
External pilot port size

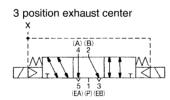
Series	Port size
SY3000	M3 x 0.5
SY ⁵ 7000	M5 x 0.8

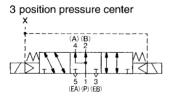
JIS symbols









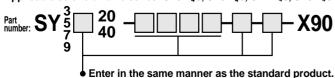


Main Valve Fluoro Rubber Specification

The use of fluoro rubber for the main valve can be applied in situations such as the following.

• When a turbine oil other than the recommended type is used and swelling of the spool valve seal causes or may cause malfunction.

Applicable solenoid valve series: $SY3\square_4^20$, $SY5\square_4^20$, $SY7\square_4^20$, $SY9\square_4^20$



Specifications and performance are the same as the standard product.

Energy Saving Solenoid Valve

Power consumption is reduced to approximately 1/3 of the standard product by cutting the excess power used for holding valves in an energized condition. (Effective when energized with the rated voltage of 24VDC for more than 62ms.)

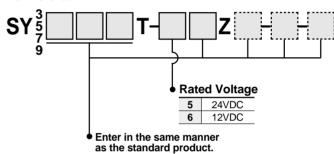
Specifications

Series		3000 SY ⁵⁰⁰⁰ ₇₀₀₀ T 9000
Rated coil voltage V		24DC, 12DC
Power consumption W	Inrush	0.55
rower consumption w	Holding	0.22

Specifications other than above are the same as the standard product.

Applicable solenoid valve series: $SY3 \square_4^2 0$, $SY5 \square_4^2 0$, $SY7 \square_4^2 0$, $SY9 \square_4^2 0$ (Except DIN terminal type)

How to order

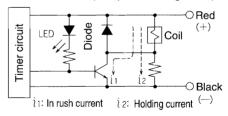


Dimensions are the same as the standard product.

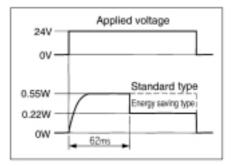
Working Principle

The circuit shown below reduces current consumption when holding, which facilitates overall energy savings Refer to the power waveform shown below.

Electrical circuit (with power saving circuit)



3000 ⁵⁰⁰⁰T> <Energy saving type power waveform for SY



SMC

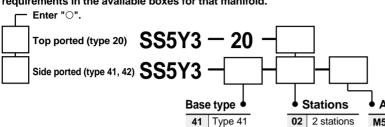
SY3000: Standard Manifold

Manifold Specification Sheet

Follow procedures (1) through (3).

1 Manifold Type

Enter a "O" for the manifold type to be used and enter requirements in the available boxes for that manifold.



42 Type 42

A/B port size

Customer name

Contact person

Quantity

Specification sheet no. Purchase order no. Equipment name

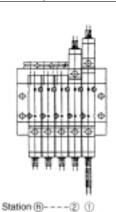
M5	M5 x 0.8	Type 41
	Rc 1/8	Type 42
C4	ø4 One-touch fitting	Type 41, 42
C6	ø6 One-touch fitting	Type 41, 42

s

Z

R

U



2 Valve Type

Type of actuation

2 position single solenoid

2 position double solenoid

Internal pilot

External pilot

When using an external pilot

appropriate box for "External Pilot Specification".

valve, enter a "O" in the

(type 3□40 only, for type 42 base)

3 position closed center

4 3 position exhaust center

5 3 position pressure center

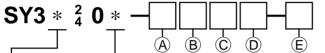
Indicate in the station table below.

Pilot type

Nil

R

Enter the symbols for required specifications as indicated below.



DC specifications		
5	24VDC	
6	12VDC	
V	6VDC	
S	5VDC	
R	3VDC	
AC specifications		

(50/60Hz) 1 100VAC 200VAC 3 | 110VAC [115VAC] 220VAC [230VAC]

(A) Rated voltage (B) Electrical entry

20 stations

G	Grommet (lead	d wire length 300mm)					
Н	Grommet (lead	d wire length 600mm)					
L	L type plug	With lead wire					
LN	L type plug connector	Without lead wire					
LO	COLLIGECTOL	Without connector					
M	M type plug	With lead wire					
MN	M type plug connector	Without lead wire					
МО	COTTTECTO	Without connector					

Note 1) For AC, there is no "S" specification, since it is integrated with the

Without indicator light/ surge voltage suppressor

With surge voltage

surge voltage suppressor

With surge voltage

suppressor

suppresso

(non-polar)

With indicator light/ surge voltage suppressor (non-polar)

With indicator light/

Note 2) "R" and "U" are available for DC only.

SY3 40- is for type 41 and 42 manifolds. SY3 40R- is for type 42 manifolds.

Indicator light/ Surge voltage suppressor (D) Manual override

Note) SY3 20- colors is for type 20 manifolds.

Required date

set(s)

	Nil	Non-locking push type					
	D	Push-turn locking slotted type					
	E	Push-turn locking lever type					
F A/B port size							

Nil	For type 41 and 42 manifolds								
M5	M5 x 0.8								
C4	ø4 One-touch fitting								
C6	ø6 One-touch fitting	manifolds							
Note)	Mixed mounting								

Note) For the type 20 mixed mounting sepcification, it is not necessary to indicate a symbol in the box. Instead, specify a symbol (M5, C4, etc.) in place of a "O" in the station table below.

3 Stations

Indicate the type of actuation and layout of valves with a "O". However, for an interface regulator with gauge, indicate with a "G" instead of "O".

	Stations	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	Quantity
2 position	Single solenoid																					
2 position	Double solenoid																					
	Closed center																					
3 position	Exhaust center																					
	Pressure center																					
	N.C. single																					
3 port valve	N.C. double																					
o port rairo	N.O. single																					
	N.O. double																					
	pilot specification nly for external pilot)																					
	Blanking plate assembly																					
	Individual SUP spacer assembly																					
Options	Individual EXH spacer assembly																					
	Interface regulator (P regulated)																					
	Interface regulator (A1 regulated)																					
	Interface regulator (B1 regulated)																					

Notes: • Blanking plate assembly: SY3000-26-9A (Type 20), SY3000-26-9A (Type 41, 42)

- Individual EXH spacer assembly: SY3000-39-20A (Type 20), SY3000-39-2A (Type 41, 42)
- Individual SUP spacer assembly: SY3000-38-20A (Type 20), SY3000-38-2A (Type 41, 42) Interface regulator: ARBY3000-□-□-2 (Type 41, 42)

Enter ordered part numbers.

Part no.	Qty.

Part no.	Qty.

Order no.	
Clerk (code no.)	
Dept. code	

- Refer to pages 157 and 158 for 3 port valve part numbers.
- Refer to page 238 for interface regulator part numbers. Also, for interface regulators with gauge, the part numbers for odd number and even number stations are different.



For SMC use only

Continue to the continue to	SY5000: Stand	arc	M b	/lai	nif	olo	d			-			name	_								
Purchase order no. Equipment name Quantity Set(s) Required date										\vdash				_								
Equipment name Country Set(s) Required date	lanitold Spec	ITIC	cat	tıo	n	Si	ne	et		F												
Quantity set(s) Required date	•									H				-								
Manifold Type Image: an artifold page to be used and enter puriements in the available boxes for that manifold.	ollow procedures 1) through (3).								-	• •		Hall	ie		cot/	c) [2001	iirod	data		
Type of actuation Property P	1 Manifold Type									Q	uani	ity				Seil	S) F	vequ	illeu	uale	<i>;</i>	
Top ported (type 41, 42) \$\$5\$75	ter a "○" for the manifold type quirements in the available bo																					∡ ∄
Side poned (type 41, 42) \$\$\$5\$5\$ Base type 4 41 Type 41 42 Type 42 20 20 seations Disposition of the properties of the	<u></u>	5Y	5 -	- 2	20	-													É	i a	a	
Base type 4 41 Type 47 42 Type 47	=			_															0			
2 Valve Type ter the symbols for required specifications as indicated below. Y 5 * 2 0 *		_		· ·								-		е	-	Tyne	<u> </u>	_	Е			
Secretary of the property of t		_					:	:			02 F	Rc 1/4	ļ	ch fit	ting	Type Type	42 41, 4			Ħ	* 1	1
Type of actuation A B C D C C C C D C C C	Nalve Type									(C8 Q	ø8 On	e-tou	ch fit	ting	Туре	41, 4	12	Station	n (B)-		
Type of actuation A Rated voltage B Electrical entry I 2 position of subdivisional part of the properties of the prope	ter the symbols for required s	pecific	catio	ns as	indi	icated	d be	low.							N	Ś	Y3□4	-0-□□	□□ is	for typ	pe 41	and 42 manifolds.
Specific or in the station and layout of valves with a "C" - However, for an interface regulator with gauge, indicated with a "C" - However, for an interface regulator with gauge, indicated with a "C" - However, for an interface regulator with gauge, indicated with a "C" - However, for an interface regulator with gauge, indicated with a "C" - However, for an interface regulator with gauge, indicated with a "C" - However, for an interface regulator with gauge, indicated with a "C" - However, for some interface segulator (P repulsated) Single solenoid Double s		⅃ <mark></mark> ⅃ ℷℂℇ	 3) (D	П	(E)						<u>©</u>	Surg	je volt	age si			<u>(D</u> 1	Man	ual d	override
2 2 position double selencied 3 3 position characterists 5 24/VIC 6 12/VIC 1 1 1 1 1 1 1 1 1	1	(A) F	Rate	d vo	tage	B	\sim	ctrica	al er	ntry			N	il ,	Without surge v	indicat	tor light suppre	ssor	Nil	N	on-lo	cking push type
3 Specific content of the station table below. Filed type Indicate in the station table below. Filed type Indicate in the station table below. Filed type Indicate in the station table below. Filed type Indicate in the station table below. Filed type Indicate in the station table below. Filed type Indicate in the station table below. Filed type Indicate in the station table below. Filed type Indicate in the station table below. Filed type Indicate in the station table below. Filed type Indicate in the station table below. Filed type Indicate in the station table below. Filed type Indicate in the station table below. Filed type Indicate in the station table below. Filed type Indicate in the station table to the station table ta			-				_				-		5				voltag	je	D			
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Pilot type Nil Internal pilot R External pilot R Sternal pilo			•			M	N	type pl		With	lead	wire		_				Ulai)	_	_		
R External pilot R PSUND fr. tyrope 2 base When using an external pilot valve, enter a "C" in the appropriate box for "External Pilot Specification." Stations Stations Stations 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 1 Quantity Sition Double solenoid Closed center Pressure center Pressure center Pressure center Pressure center Pressure center N.C. single N.C. double N.C. single N.C. single N.C. double N.C. single N.C. single N.C. single N.C. double N.C. single N.C.		(50/6	100	VAC		MC D	CO	nnecto	r –	Witho With c	ut con connec	nector ctor	Note	J :	surge vo (non-po	oltage : olar) ere is n	sŭppre:	ssor	01	Ro ø4	c 1/8 One-to	uch fitting
When using an external pilot specification. **Mean using an external pilot wishe, enter a "O" in the specification of the type of actuation and layout of valves with a "O". However, for an interface regulator with gauge, indicate with a "G" is not necessary to indicate a symbol in the (E) to continuous properties of the type of actuation and layout of valves with a "O". However, for an interface regulator with gauge, indicate with a "G" is not necessary to indicate a symbol in the (E) to continuous properties of the type of actuation and layout of valves with a "O". However, for an interface regulator with gauge, indicate with a "G" is not necessary to indicate a symbol in the (E) (0.1, C.4. etc.) in the station table below." In the station table below. In the station tab	External pilot		_		5VAC		*		-					spe inte	ecification egrated	on, sinc	e it is e rectifi			_		uch fitting manifolds
valve, enter a "O" in the space pointed to for "Examinal Pilot Specification of 10", "and "YO", "an						YO	* DIF		ai _				Note	are	non-po	lar type	es, "R"	and				
Stations icate the type of actuation and layout of valves with a "O". However, for an interface regulator with gauge, indicate with a "G" instead of "O". Stations Single solenoid Double solenoid Double solenoid N.C. single N.C. single N.C. single N.O. double Pressure center N.O. single N.O. double Blanking plate assembly Individual SUP spacer assembly Individual SUP spacer assembly Interface regulator (B1 regulated) Part no. Qty. Part no. Near of year and "u" are available for box in indicate a symbol tool. 10, 4 cm.) in indicate a symbol (01, 04, 4 cm.) in interface regulator (B1 regulated) Interface regula	appropriate box for "External Pilot	´ "	"DO", "\	Y", and '	YO"	,	iei io	page 16	9.				Note			"YOZ"	are no	ot	Note)			
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Double solenoid Closed center Sition Exhaust center Pressure center N.C. single N.C. double N.O. single N.O. double N.O. single N.O. double Samal pilot specification ter only for external pilot) Blanking plate assembly Interface regulator (A1 regulated) Interface regulator (B1 regulated) Interface regulator (B1 regulated) Interface regulator (B1 regulated) Interface assembly: SY5000-26-18A (Type 20), SY5000-38-2A (Type 41, 42) Individual SUP spacer assembly: SY5000-38-1A (Type 20), SY5000-38-2A (Type 41, 42) Individual SUP spacer assembly: SY5000-38-1A (Type 20), SY5000-38-2A (Type 41, 42) Individual SUP spacer assembly: SY5000-38-1A (Type 20), SY5000-38-2A (Type 41, 42) Individual SUP spacer assembly: SY5000-38-1A (Type 20), SY5000-38-2A (Type 41, 42) Individual SUP spacer assembly: SY5000-38-1A (Type 20), SY5000-38-2A (Type 41, 42) Individual SUP spacer assembly: SY5000-38-1A (Type 20), SY5000-38-2A (Type 41, 42) Individual SUP spacer assembly: SY5000-38-1A (Type 20), SY5000-38-2A (Type 41, 42) Individual SUP spacer assembly: SY5000-38-1A (Type 20), SY5000-38-2A (Type 41, 42) Individual SUP spacer assembly: SY5000-38-1A (Type 20), SY5000-38-2A (Type 41, 42) Individual SUP spacer assembly: SY5000-38-1A (Type 20), SY5000-38-2A (Type 41, 42) Individual SUP spacer assembly: SY5000-38-1A (Type 20), SY5000-38-2A (Type 41, 42) Individual SUP spacer assembly: SY5000-38-1A (Type 20), SY5000-38-2A (Type 41, 42) Individual SUP spacer assembly: SY5000-38-1A (Type 20), SY5000-38-2A (Type 41, 42) Individual SUP spacer assembly: SY5000-38-1A (Type 20), SY5000-38-2A (Type 41, 42) Individual SUP spacer assembly: SY5000-38-1A (Type 20), SY5000-38-2A (Type 41, 42) Individual SUP spacer assembly: SY5000-38-1A (Type 20), SY5000-38-2A (Type 41, 42) Individual SUP spacer assembly: SY5000-38-1A (Type 20), SY5000-38-2A (Type 41, 42) Individual SUP spacer assembly: SY5000-38-1A (Type 20), SY5000-38-2A (Type 41, 42) Individual SUP spacer assembly: SY5000-38-1A (Type 20), SY5000-38-2A (Type 41, 42) Individual SUP spacer assembly: SY500	Stations	3 20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	Quantity
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s: • Blanking plate assembly: SY5000-26-18A (Type 20), SY5000-26-18A (Type 41, 42) • Individual SUP spacer assembly: SY5000-38-1A (Type 20), SY5000-38-2A (Type 41, 42) • Individual EXH spacer assembly: SY5000-39-1A (Type 20), SY5000-39-2A (Type 41, 42) • Interface regulator: ARBY5000-□-□-2 (Type 41, 42) • Interface regulator: ARBY5000-□-□-2 (Type 41, 42) • Individual EXH spacer assembly: SY5000-39-1A (Type 20), SY5000-39-2A (Type 41, 42) • Interface regulator: ARBY5000-□-□-2 (Type 41, 42) • Individual EXH spacer assembly: SY5000-39-1A (Type 20), SY5000-39-2A (Type 41, 42) • Individual EXH spacer assembly: SY5000-39-1A (Type 20), SY5000-39-2A (Type 41, 42) • Individual EXH spacer assembly: SY5000-39-1A (Type 20), SY5000-39-2A (Type 41, 42) • Individual EXH spacer assembly: SY5000-39-1A (Type 20), SY5000-39-1A (Type 41, 42) • Individual EXH spacer assembly: SY5000-39-1A (Type 20), SY5000-39-1A (Type 41, 42) • Individual EXH spacer assembly: SY5000-39-1A (Type 20), SY5000-39-1A (Type 41, 42) • Individual EXH spacer assembly: SY5000-39-1A (Type 20), SY5000-39-1A (Type 41, 42) • Individual EXH spacer assembly: SY5000-39-1A (Type 20), SY5000-39-1A (Type 41, 42) • Individual EXH spacer assembly: SY5000-39-1A (Type 41, 42) • Individual EXH spacer assembly: SY5000-39-1A (Type 41, 42) • Individual EXH spacer assembly: SY5000-39-1A (Type 20), SY5000-39-1A (Type 41, 42) • Individual EXH spacer assembly: SY5000-39-1A (Type 41, 42) • Individual EXH spacer assembly: SY5000-39-1A (Type 41, 42) • Individual EXH spacer assembly: SY5000-39-1A (Type 41, 42) • Individual EXH spacer assembly: SY5000-39-1A (Type 41, 42) • Individual EXH spacer assembly: SY5000-39-1A (Type 41, 42) • Individual EXH spacer assembly: SY5000-39-1A (Type 41, 42) • Individual EXH spacer assembly: SY5000-39-1A (Type 41, 42) • Individual EXH spacer assembly: SY5000-39-1A (Type 41, 42) • Individual EXH spacer assembly: SY5000-39-1A (Type 41, 42) • Individual EXH spacer assembly: SY5000-39-1A (Type 41, 42) • Individual EXH spacer assembly: SY5000-39-1A (Type 4			-	1				+ +									-		1			
Part no. Qty. Part no. Qty. Order no. Clerk (code no.) Dept. code Refer to pages 157 and 158 for 3 port valve part numbers. Refer to page 238 for interface regulator part numbers.		-1	ype 20)), SY50	000-26	-18A (1	Гуре 4	11, 42)		• Inc	dividua	I EXH	spacer	asse	mbly: S	Y500	0-39-1	A (Typ	pe 20),	SY50	00-39-	2A (Type 41, 42)
Part no. Qty. Part no. Qty. Part no. Qty. Clerk (code no.) Dept. code Refer to pages 157 and 158 for 3 port valve part numbers. Refer to page 238 for interface regulator part numbers.	Individual SUP spacer assembly: SY	5000-38	8-1A (T	ype 20), SY50	000-38	,		,			e regu	lator: A	ARBY	5000-	□-□-2	2 (Typ	e 41,	42)			
Clerk (code no.) Dept. code • Refer to pages 157 and 158 for 3 port valve part numbers. • Refer to page 238 for interface regulator part numbers.	er ordered part numbers.				_			ror SN	nC us	se on	ily 											
Dept. code • Refer to pages 157 and 158 for 3 port valve part numbers. • Refer to page 238 for interface regulator part numbers.	Part no.			Qty.						Part	t no.				Qt	ty.	С	rder	no.			
Refer to pages 157 and 158 for 3 port valve part numbers. Refer to page 238 for interface regulator part numbers.																	С	lerk (c	ode no	0.)		
numbers. • Refer to page 238 for interface regulator part numbers.																	D	ept.	code			
numbers.																	n • R	umbers lefer to	s. page 2			
102																						
									C	<i>I</i>												192

Copy this page for use as needed.

Date:

Features

Precautions

SY7000: Standard Manifold

Manifold Specification Sheet

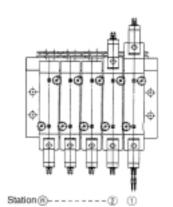
Follow procedures (1) through (3).

Manifold Type

Enter a "O" for the manifold type to be used and enter requirements in the available boxes for that manifold.

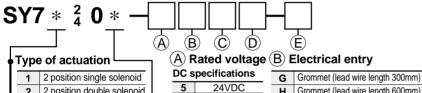


Date: Customer name Contact person Specification sheet no. Purchase order no. Equipment name Required date Quantity set(s)



2 Valve Type

Enter the symbols for required specifications as indicated below.



6 V

S

AC s

(50/60

1

2

3

4

110VAC [115VAC]

220VAC [230VAC]

available in 24VDC

Note) DC specification of "D", "DO", "Y", and "YO" types are only

and 12VDC.

	2 position double solenoid
3	3 position closed center
4	3 position exhaust center
-5	3 position pressure center

Indicate in the station table below.

Pilot type

Nil	Internal pilot
R	External pilot (type 7 40 only, for type 42 base)

When using an external pilot valve, enter a "O" in the appropriate box for "External Pilot Specification"

24VDC	н	Grommet (lead	wire length 600mm)		
12VDC			With lead wire		
6VDC		L type plug			
5VDC	LN	connector	Without lead wire		
	LO	COLLIGECTOL	Without connector		
3VDC	M		With lead wire		
pecifications	MN	M type plug connector	Without lead wire		
0Hz)	MO	connector	Without connector		
100VAC	D	DIN terminal	With connector		
200VAC	DO	Din terminal	Without connector		

2 stations

20 20 stations

02

YO* DIN terminal * Refer to page 189

With connector

Without connector

Indicator light/ © Surge voltage suppressor D Manual override

A/B port size **02** Rc 1/4

C10 Ø10 One-touch fitting

Without indicator light/ Nil surge voltage suppressor With surge voltage suppressor With indicator light/ 7 surge voltage suppressor

With surge voltage suppressor (non-polar) With indicator light/

surge voltage suppressor (non-polar) Note 1) For AC, there is no "S'

specification, since it is

integrated with the rectifier Note 2) Since "D", "DO", "Y", and "YO" are non-polar types, "R" and "U" are not

available. Note 3) "DOZ" and "YOZ" are not available.

Note 4) "R" and "U" are available for DC only.

Note) SY7 20 - Color is for type 20 manifolds. SY7 40- is for type 42 manifolds.

Nil	Non-locking push type
D	Push-turn locking slotted type
E	Push-turn locking lever type

(E) A/B port size

Nil	For type 42 manifolds						
	Rc 1/4						
	For type 20						
C10	ø10 One-touch fitting	manifolds					
Note)	Mixed mounting						

Note) For the type 20 mixed mounting sepcification, it is not necessary to indicate a symbol in the E box. Instead, specify a symbol (0.2, C8, etc.) in place of a "○ in the station table below.

Stations

Indicate the type of actuation and layout of valves with a "O".

	Stations	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	Quantity
2 position	Single solenoid																					
2 position	Double solenoid																					
	Closed center																					
3 position	Exhaust center																					
	Pressure center																					
Externa (Enter o	l pilot specification only for external pilot)																					
	Blanking plate assembly																					
	Individual SUP spacer assembly	,																				
Options	Individual EXH spacer assembly	,																				

Notes: • Blanking plate assembly: SY7000-26-20A (Type 20), SY7000-26-20A (Type 42)

- Individual SUP spacer assembly: SY7000-38-1A (Type 20), SY7000-38-2A (Type 42)
- Individual EXH spacer assembly: SY7000-39-1A (Type 20), SY7000-39-2A (Type 42)

For SMC use only

Enter ordered part numbers.

Part no.	Qty.

Part no.	Qty.

Order no.	
Clerk (code no.)	
Dept. code	



SMC

194

		Stations			20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	Quantity
	O maniting	Single solenoid																							
	2 position	Double solenoid																							
(a)		Closed center																							
•	3 position	Exhaust center																							
		Pressure center																							
	_	plate assembly																							
Ь	External (Enter on	oilot specification ly for external pilot)																							
(c)	SUP bloc	k disc																							
(C)	EXH block	disc (2 pcs./location)																							
(d)	Se Individ	lual SUP spacer assembly																							
<u> </u>	8 Individ	lual EXH spacer assembly																							

Notes: • Blanking plate assembly: SY9000-26-2A

- Individual SUP spacer assembly: SY9000-38-2A
- SUP block disc: SY9000-57-1A • EXH block disc: SY9000-57-1A (2 pcs./location)
- Individual EXH spacer assembly: SY9000-39-2A

For SMC use only

=nte	r ordered part numbers.				
	Part no.	Qty.		Part no.	Qty.

Order no.	
Clerk (code no.)	
Dept. code	

Е

Order no.
Clerk (code no.)
Dept. code

Refer to pages 157 and 158 for 3 port valve part numbers.

SY5000-37-15A

SY3000-37-34A

SY5000-37-3A

SY3000-37-6A

Qty.

 Refer to page 238 for interface regulator part numbers. Also, for interface regulators with gauge, the part numbers for odd number and even number stations are different.

Part no.

Connector assembly (for 2 position single, with spacer assembly)

Part no

Qty.

Connector assembly (for 2 position double, with spacer assembly

Enter ordered part numbers

Precautions

SY5000-37-19A

SY3000-37-37A

SY5000: Flat Ribbon Cable

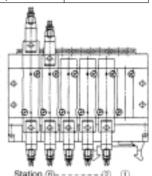
Manifold Specification Sheet

Follow procedures 1 through 3.

1 Manifold Type

Customer name
Contact person
Specification sheet no.
Purchase order no.
Equipment name
Quantity
Set(s) Required date

Enter a "O" for the manifold type to be used and enter request.	uirer	nents in the	ava	ilable boxes for th	nat manifold.
CCEVE OOD			A/	B port size	
Top ported (type 20P) SS5Y5 — 20P —			01	Rc 1/8	Type 41P
Cide world (sure 410 ADD) CCEVED	┱		02	Rc 1/4	Type 42P
Side ported (type 41P, 42P) SS5Y5 — P-			C6	ø6 One-touch fitting	Type 41P, 42P
. . T			C8	ø8 One-touch fitting	Type 41P, 42P
Base type ◆	• 51	ations			
41 Type 41	03	3 stations			
42 Type 42	:	:			
	12	12 stations			



2 Valve Type

Enter the symbols for required specifications as indicated below.

For DC: SY5 * ²/₄ 0 * LO LOZ

Type of actuation

B

A

LO

B

D

E

Note) SY5□20-□LO U□-□ is for type 20P manifolds. SY5□40-□LO U□ is for type 41P and 42P manifolds. SY5□40R-□LO U□ is for type 42P manifolds.

© Indicator light/Surge voltage suppressor

With indicator light/surge voltage suppressor
 With indicator light/surge voltage suppressor (non-polar)

Note) Only positive COM specification is available for "Z".

1	2 position single solenoid							
2	2 position double solenoid							
3 3 position closed center								
4	4 3 position exhaust center							
5 3 position pressure center								
ndicate in the station table below.								

Pilot type

Nil Internal pilot

R External pilot (type 5 0 40 only, for type 42P base)

When using an external pilot valve, enter a "O" in the appropriate box for "External Pilot Specification".

A Rated voltage Manual override

	24VDC	Nil	Non-locking push ty				
Rated voltage		D	Push-turn locking slotted type				
		E	Push-turn locking				
	100VAC	_	lever type				
	110VAC [115VAC]						

E A/B port size

Nil	For type 41P and 42P manifolds							
01	Rc 1/8							
C4	ø4 One-touch fitting							
C6	ø6 One-touch fitting	For type 20P manifolds						
C8	ø8 One-touch fitting	manifolds						
Note)	Mixed mounting							

Note) For the type 20 mixed mounting sepcification, it is not necessary to indicate a symbol in the (E) box. Instead, specify a symbol (01, C4, etc.) in place of a "O" in the station table below.

3 Stations

Indicate the type of actuation and layout of valves with a "O". However, for an interface regulator with gauge, indicate with a "G" instead of "O".

	Stations	12	11	10	9	8	7	6	5	4	3	2	1	Quantity
0 ===!!!==	Single solenoid													
2 position	Double solenoid													
	Closed center													
3 position	Exhaust center													
	Pressure center													
	N.C. single													
3 port valve	N.C. double													
o port varvo	N.O. single													
	N.O. double													
External (Enter o	pilot specification nly for external pilot)													
	Blanking plate assembly													
	Individual SUP spacer assembly													
Options	Individual EXH spacer assembly													
Options	Interface regulator (P regulated)													
	Interface regulator (A1 regulated)													
	Interface regulator (B1 regulated)													

Notes: • Blanking plate assembly: SY5000-26-19A (Type 20P), SY5000-26-19A (Type 41P, 42P)

- Individual EXH spacer assembly: SY5000-39-1A (Type 20P), SY5000-39-2A (Type 41P, 42P)
- Individual SUP spacer assembly: SY5000-38-1A (Type 20P), SY5000-38-2A (Type 41P, 42P) Interface regulator: ARBY5000----2 (Type 41, 42)

B

For SMC use only

Indicate connector assemblies with a "O" in accordance with the valve specifications.

Stations	12	11	10	9	8	7	6	5	4	3	2	1	Quantity	For DC	For 100VAC	For 110VAC
Connector assembly (for 2 position single)														SY5000-37-3A	SY5000-37-15A	SY5000-37-19A
Connector assembly (for 2 position double, 3 position)														SY5000-37-4A	SY5000-37-16A	SY5000-37-20A
Connector assembly (for 2 position single, with spacer assembly)														SY5000-37-5A	SY5000-37-17A	SY5000-37-21A
Connector assembly (for 2 position double, 3 position,)														SY5000-37-6A	SY3000-37-18A	SY5000-37-22A

Enter ordered part numbers.

Part no.	Qty.

Part no.	Qty.

Order no.	
Clerk (code no.)	
Dept. code	

- Refer to pages 157 and 158 for 3 port valve part numbers.
- Refer to page 238 for interface regulator part numbers

• Individual EXH spacer assembly: SY7000-39-1A (Type 20P), Y7000-39-2A (Type 42P)

For SMC use only

Indicate connector assemblies with a "O" in accordance with the valve specifications. 12 11 10 9 Quantity For 100VAC For 110VAC For DC Connector assembly (for 2 position single) SY5000-37-19A SY5000-37-3A SY5000-37-15A Connector assembly (for 2 position double, 3 position) SY5000-37-4A SY5000-37-16A SY5000-37-20A Connector assembly (for 2 position single, with spacer assembly) SY5000-37-17A SY5000-37-21A SY5000-37-5A Connector assembly (for 2 position double, 3 position, with spacer assembly SY5000-37-6A SY5000-37-18A SY5000-37-22A

SMC

Enter ordered part numbers

	Part no.	Qty.

Part no.	Qty.

Order no.	
Clerk (code no.)	
Dept. code	

3 Stations

3 position exhaust center

5 3 position pressure center

Indicate in the station table below

Indicate the type of actuation and layout of valves with a "O".

[When A/B port sizes are mixed, indicate symbols (C8, C10, etc.) in the (a) section.]

When using an external pilot valve, enter a "O" in the b section of the station table

ø12 One-touch fitting Note) Mixed mounting Note) For the mixed mounting sepcification, it is not necessary to indicate a symbol in the (E) box. Instead, specify a symbol (02, C10, etc.) in place of a "O" in the

ø8 One-touch fitting

ø10 One-touch fitting

station table below

C8

C10

C12

		Stations	12	11	10	9	8	7	6	5	4	3	2	1	Quantity
	Omanitian	Single solenoid													
	2 position	Double solenoid													
		Closed center													
a	3 position	Exhaust center													
	_	Pressure center													
	Blanking p	late assembly													
b	External p (Enter only	ilot specification y for external pilot)													
$\overline{}$	SUP block	disc				·		·	·					·	
©	EXH block disc (2 pcs./location)														
$\overline{}$	g Individu	ual SUP spacer assembly	'		,				•			,			
(d)	Individu	ual EXH spacer assembly													
Note	s: • Blanking	plate assembly: SY9000	-26-3A		Individual	SUP spac	er assemb	ly: SY9000)-38-1A						

(B) Rated voltage

110VAC [115VAC]

100VAC

slotted type

lever type

Push-turn locking

- Individual EXH spacer assembly: SY9000-39-1A
- SUP block disc: SY9000-61-2A • EXH block disc: SY9000-61-2A (2 pcs./location)

For SMC use only

Indicate connector assemblies with a "O" in accordance with the valve specifications.

Stations	12	11	10	9	8	7	6	5	4	3	2	1	Quantity	For DC	For 100VAC	For 110VAC
Connector assembly (for 2 position single)														SY9000-37-1A	SY9000-37-1B	SY9000-37-1C
Connector assembly (for 2 position double, 3 position)														SY9000-37-2A	SY9000-37-2B	SY9000-37-2C
Connector assembly (for 2 position single, with spacer assembly)														SY9000-37-3A	SY9000-37-3B	SY9000-37-3C
Connector assembly (for 2 position double, 3 position,)														SY9000-37-4A	SY9000-37-4B	SY9000-37-4C

Enter ordered part numbers.

199

Part no.	Qty.

Part no.	Qty.

Order no.	
Clerk (code no.)	
Dept. code	

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		IUL	JUII	C	ayı	<u> </u>			Contact	perso	n						
Base Mou	ınted								Specification	on shee	t no.						
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· .		3).							Quantity	<i>'</i>		set	(s) Red	quired d	ate		- P
1) Manif	fold Type								• Option	n							N.
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S5Y9	-43P-				\Box		\vdash		D			t (with E	DIN rail)				
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oomonoo.			у	RS	Exter	nai pilo	t/Built-in s	silencer					6	⊗ □ € □ €	8 08 0		
2) Valve	e Type								Note) For	mixed r	nounting, i	ndicate		9 9	9 9		<u> </u>
		pecifi	ication	s as i	indicat	ed be	elow.		the	a secti				⊗ . .			e e
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For AC	: SY9 * 40) *	_		LO	Ζ			Z					- ' '			4
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	and a solution and a solution of the			ilot		$\stackrel{\smile}{-}$				anual	overri	de					6
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Manifold Specification Sheet Follow procedures (*) through (*). Manifold Type Enter the symbols for required specifications in the boxes below. SS599 — 43P —																	
Manifold Specification Sheet Follow procedures () through (3). Manifold Type Enter the symbols for required specifications in the boxes below. SS\$Y9 = 43 P																	
2 position																	
	Double solenoid														-		Ċ
3 position																	
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es: • Blanking	g plate assembly: SY9000		\								1	1	1				
		2 pcs./lo	ocation)	•	Individu	al EXH	spacer a	assembly	y: SY9000-3	39-2A							
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		the station table below					An aste made p			iicate	s ord	er.				n table		- ""				1	0	0 0	P	<u> </u>	
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_	ype of ac	tuation		(E		© volta) D	. <u>;</u> .B)	Fle	ctri	cal	entr	·v			Œ	Ind Su	licato	r lig	ht/ ne si	Joor	esso	or	(D)	Ma	ınua	l overrid
-		on single solenoid on double solenoid	\sim			ations	_	G				ad wire length 300mm) Without indic											_	$\stackrel{\smile}{=}$			-locking
-		on closed center	5	_		VDC		Н	_				<u> </u>	th 600		: _'	Nil	surge					or_		lil.		type J
		on exhaust center	<u>6</u> V			<u>VDC</u> DC	_	L LN		/pe p	olug-			d wire ead v			S	With supp			οιτας	je			D		-turn locking
- Ir	-	on pressure center station table below.	S			DC	_	LO		nnec	lui	With	out c	conne	ector		z	With					or.			slotte	ed type
F	Pilot				cifica	DC ations		MN MC	⊔ cor	ype į nect	or -	With	out l	d wire ead v			R	With	sur	ge vo				ı	E		turn locking
	Nil	Internal pilot	1		- , 00V <i>A</i>	AC	_	IVIC				VVILII	our	JOHN	CCIOI	-		(non With			liaht/	,	_				
	R When I	External pilot using an external pilot	3		00VA	AC C [115V/	A C1										U	surge	e vol	tage :			or				
1	valve,	enter a "O" in the riate box for "External	4			C [230V										No	te 1)	(non For A			s no	"S" s		ficatio	nn		
V		pecification".															,	since	it is	integ	grate	d witl	h the	recti	fier.		
(3	Statio	ns														No		"R" ar only.	nd "L	J" are	ava	iilable	e for	24VL	C		
		yout of valves, etc	wit	h a	"()"	Hov	vever	for	an i	nter	face	rec	บปล	tor v	with	กลเเ	ne i	ndic	ate	with	h a	"G"	ine	teac	l of	"0"	
		ns or layout	.,	u												11			8	7	6	5	4	3	2	1	Quantity
		Single solenoid	H				120	13	10	- '	10	1.5		1.5	12			+		•		5	-	+	_	+ '	Quantity
	2 position	Double solenoid																1	4								
	3 position	Closed center Exhaust center						-										-	-								
	•	Pressure center																									
(a)	_	N.C. single N.C. double						-									-	+	\dashv						-		
	3 port valves	N.O. single																									
	Blanking ni	N.O. double ate assembly				\Box											\dashv	\dashv	\dashv	\exists	_						
	External pile	ot specification	H					-									+	+	\dashv	\dashv							
	(Enter only	for external pilot)																_	\dashv								
b	Special SU specifications	IP/EXH block assembly	H															+	\dashv								
<u> </u>	SUP block		T	T	T	T	Ш		\perp	\top		\perp	\perp				Τ'	Ľ	Ľ	Ľ		\top	Τ	`\	Ϊ		
_		<u> </u>	Н	\perp			\Box	\vdash	\perp	\vdash	\perp	\perp	\vdash	\vdash	\vdash		Д,	4	4	4		\perp	\perp	\perp	\perp	\perp	
	EXH block disc (2 pcs./location) Individual SUP spacer assembly Individual EXH spacer assembly																	+	\dashv	_			-	+	+	+	

	2	-:4:	Sirigle soleriold														
	2 po	sition	Double solenoid														
			Closed center														
	3 po	sition	Exhaust center														
			Pressure center														
a			N.C. single														
	3 nort	valves	N.C. double														
	o port	vaives	N.O. single														
			N.O. double														
			ate assembly														
	Exte (Ente	rnal pilo er only f	ot specification for external pilot)														
	Speci		P/EXH block assembly														
b	specifica	tions															
(c)	SUP	block o	disc									Т			Т		
C	EXH	block o	disc (2 pcs./location)														
		Individua	al SUP spacer assembly					•					·				
	ြက္	Individua	al EXH spacer assembly														
d	Options	Interfac	e regulator (P regulated)														
	9	Interface	e regulator (A1 regulated)														
		Interface	e regulator (B1 regulated)														

Notes: • Blanking plate assembly: SX3000-75-1A
• SUP block disc: SX3000-77-1A
• EXH block disc: SX3000-77-1A (2 pcs./location)
• Individual SUP spacer assembly: SY3000-38-2A
• SUP/EXH block assembly (standard): SX3000-51-1A
• SUP/EXH block assembly (S type): SX3000-51-3A
• SUP/EXH block assembly (RS type): SX3000-51-5A
• SUP/EXH block assembly (RS type): SX3000-51-5A For SMC use only

Ente	r ordered part numbers.	
	Part no.	Qty.

Part no.	Qty.

Order no.	
Clerk (code no.)	
Dept. code	

Note 1) For special specifications of the SUP/EXH block assembly mounting position, list its part number and quantity with the manifold type.

Note 2) Refer to pages 157 and 158 for 3 port valve part numbers.

Note 3) Refer to page 238 for interface regulator part numbers. Also, for interface regulators with gauge, the part numbers for odd number and even number stations are different.



ppy this page for use as needed.								_		_													Date	э:	/ /	
SY5000: Non-pl	uc	y_ir	า _							С	usto	ome	r na	me												Features
-	a E	J "	•							-			oers													ures
OIN Rail Manifold										Η.			n she													
/Ianifold Speci	fic	cat	io	n	S	h	ee	t		<u> </u>			orde		+											~ (
•								•		_			nt n	ame	е			()	_		_		_			valve
ollow procedures ① through ③										C	uar	itity					set	(S)	Re	quii	ed	date	9			0 7
1 Manifold Type ter the symbols for required specific and the symbols	ecific	ation	ns in	the k	оох	es b	elov	v. :			Whe) DIN ration						(Ma	aximu	ım nı	umbe	er of v	alves	s: 20 stations)	20
SS5Y5 — 45 —		\perp	<u>.</u> 1					₹			indi	cate	the nu (Max	umbe	er of	requi				®	 		-30 -30	(1) - (2) (Valve stations D- Layout	_
tations SUP/EXH block a mounting position		_ nbly		SUP/ ssei					tio	n] _A	/B p	ort	siz	е			Ш	side	Ě	l a		Ī		(for special specifications) D side	23
Symbol Mounting position Appl		ations	Sym N	il S	Stan	dard	cifica d/Inte	rnal	pilo		Symbol C4	ı.	8 ø4 O ø6 O	ne-t		n fittir				-	0	+2	•0	•0		20P
umber of lanking plate ssemblies M Special specifications and specifications are specifications.	icatio	ns	S	3* I	ntern	nal pilo	ot/Buil lot/Bui	t-in si		er	C8 M	В	ø8 O	ne-t Mi	oucl ixed	n fittir	ng		9		ξ.	2.			30	23P
* For special specifications the station table below. 2 Valve Type	s, indic	cate in	Note	e) An a mad		risk (: roduc		icates	s ord	er I	Note)	C4, (mixed C6 or e stati	C8 ir	nstea					6	E	Û	9	9	Ш	- 1
ter the symbols for required spo	ecific	cation	ns as	indi	cate	ed b	elov	٧.													w					valve
SY5 <u>*</u> 40 <u>*</u> –		<u></u>][Ţ	<u> </u>	B) E	Elec	tric	cal e	entr	у		©	Inc Su	dicato	or lig	ght/ ge s	uppr	esso	or	D	Maı	nual	l override	41
Type of actuation (A	\sim	B	©		D		G	1			ire len				Nil	With	out i	ndica	ator li			N			locking type	
1 2 position single solenoid	DC s	Rateo	catio	ns	•	-	H L LN	L ty	pe p	lug	ire leno With Withou	lead	wire		S	With	n sui pres	rge v ssor	oltag	ge	_			Push	turn locking	420
3 3 position closed center 4 3 position exhaust center 5 3 position pressure center	5 6 V	12 6\	4VDC 2VDC VDC				M MN	M ty	nect pe p	lug	Withou With Withou	lead	wire		Z R	surg	je vo	ltage rge v	light/ supp oltag	resso	or_	E	=		-turn locking	43
ndicate in the station table below.	S R AC spe		VDC VDC ions (50	0/60Hz	:)	-	MO D DO		term	inal	Withou With out	conne	ector		U U	(no	n-po indi	olar) cator	light	/ oresso	— nr				.,,,,,	4
Nil Internal pilot	1 2	100V 200V					Y* YO*	DIN	term		With o					(nor	n-pol	lar)			_					100
R External pilot When using an external pilot	3	110VA	C [115			*	Refe	r to p	age 1		************	100111	100101	No		For AC since i										
valve, enter a "O" in the	4 Note) D	220VA	cificatio	on of "[D", "E	00", "	Y",								,	"DOZ" "R" an					or 24\	/DC o	nlv			42F
Pilot Specification". 3 Stations		and "YC 24VDC			nly a	ıvailat	ole in								te 4)	Since polar t	"D", '	"DO",	"Y",	and "	YO" a	re no	n-			0
dicate the layout of valves, etc.,	with	a "O	". Ho	owev	ær,	for	an ir	nter	face	e reg	julat	or v	vith (gau	ge,	indic	ate	wit	h a	"G"	inst	tead	of "	0".		43P
Stations or layout					20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	Quantity	
2 position Single solenoid Double solenoid																										45
Closed center																										
3 position Exhaust center Pressure center																										45-NA
N.C. single N.C. double																										N N
N.O. single																										.4
N.O. double Blanking plate assembly																										55
External pilot specification (Enter only for external pilot)																										
Special SUP/EXH block assembly																										
SUP block disc	\perp		\Box	\Box	\dashv	H	\sqcup	\Box	_					\dashv	\top	\Box	\top			4	4	_	\vdash	Щ		
EXH block disc (2 pcs./location)	1,			Ι,	I,	1	I,	1,		I				I,	1		1,			I	I	I	I	I,		
Individual SUP spacer assembly Individual EXH spacer assembly Interface regulator (P regulated) Interface regulator (A1 regulated)	+																									valve
Interface regulator (A1 regulated) Interface regulator (B1 regulated)																										
es: • Blanking plate assembly: SX5000-76-1A • SUP block disc: SX5000-77-1A • EXH block disc: SX5000-77-1A (2 pcs./location	•	Individua Individua Interface	al EXH s	pacer a	asser	nbly: S	SY5000 □-2)-39-2	A • S	SUP/E	XH blo														SX5000-51-4A : SX5000-51-5A	operated
er ordered part numbers. Part no.			Qty.				Fo	or SIV	nC u	se o Pa	nly rt no	_				Q	ty.		Ord	ler n	0.	T				made
																			_	k (co		0.)				
																			Note '	1) For asse and	specia embly quant	mounti	ing pos	ition, li anifold	e SUP/EXH block st its part number type. or 3 port valve part	spec. sheets
									; SI											num 3) Refe	bers. er to pa	age 23	8 for in mbers.	terface		Precaut

3 port Air Order spec. Precautions sheets

Note) The lead wire assembly for use between the valves and connector box is included with the manifold, therefore its specification is not necessary.

- Notes: Blanking plate assembly: SX3000-75-1A
 SUP block disc: SX3000-77-1A
 EXH block disc: SX3000-77-1A (2 pcs./location)
- Individual SUP spacer assembly: SY3000-38-2A SUP/EXH block assembly (Rathord): SX3000-51-1A SUP/EXH block assembly (S type): SX3000-51-4A SUP/EXH block assembly (R type): SX3000-51-5A SUP/EXH block assembly (RS type): SX3000-51-5A SUP/EXH block assembly (RS type): SX3000-51-5A

For SMC use only

 ordered part nambere.	
Part no.	Qty.

Part no.	Qty.
	Part no.

Order no.	
Clerk (code no.)	
Dept. code	

Note 1) For special specifications of the SUP/EXH block assembly mounting position, list its part number and quantity with the manifold type.

Note 2) Refer to pages 157 and 158 for 3 port valve part numbers.

a 3) Refer to page 238 for interface regulator part numbers. Also, for interface regulators with gauge, the part numbers for odd number and even number stations are different.



opy this pag	e for use as needed.																					Dat	e:	/ /	
SY50	00: With (Con	nec	tor	B	OX			-	Custo				;											Features
	-in, DIN Rail Ma					J ,			-	onta				+											ures
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vianit	old Spec	CITIC	atio	n :	S r	166	et :		-	quip				_											Va =
•	edures ① through	3							-	uar						set	t(s)	Re	quir	ed (date	9			valve
1 Mani	fold Type																•								
nter the syn	nbols for required s	specifica	tions in	the b	oxes	belo	w. ' I					·		ptio hen a		rail	longe	er tha	an the	e spe	ecifie	ed			20
SS5Y	5-45 —		-				\vdash			H			sta	ations	s is n	eces	sary, ons. (I	indid	cate 1	the r	numb				
pecification				\top		1	-					_	J								,	Вр	ort s	size	237
	pecification ctor box (positive COM)				4	SUP/I	EXH	blo	ck a	sse	mbl	y		JP/E sen			ck ecifi	cati	ion		ymbo			cification	
	tor box (negative COM)	Static	ons		_	mour					station	ns -	Symb	ol	Sp	ecif	icatio	on			C4 C6	_		-touch fitting -touch fitting	20P
cluded is differ	ent.	Symbol Stati 02 2 stat			U	ı	J side	е		10 st		_	Nil R*		tand xterr		Interri ilot	nal p	ilot	- [C8	ø8		-touch fitting	
	mounting position ounting position	: :	16 sol	enoids	В	Во	th sid	des	_			<u> </u>	S*	· In	ternal	pilot/	Built-i				M ote) F	or m		Mixed nounting,	23P
U	U side ,		he number	of	* Fo	r speci	pecia al spe					 in 1	RS Note)				/Built- indica			_	í	ndica	te C4	, C6 or C8 ○" in the	
D	D side	blanking p	olate assen	ıblies.		statio				,	outo			made					0.00.				n table		Va C
2 Valv																/ N	∕laxim	ium n	numbe	er of	valve	s: 16	statio	ons \	valve
ter the syn	nbols for required s	•	·	indic	ated	belo	w.																	licable.	
SY5 <u>*</u>	40 <u>*</u> – <u>5</u>	<u>LO</u> (U														<u>@</u> -		(2	O C)		Valve statio		41
Type of a	ectuation	┐╚) 🗥	\ P. F		ا	· · · ·	J.								0		(3	0 9	9		Layou for s	ut pecial	
	tion single solenoid			\triangle		nual											à							fications)	420
2 2 posi	tion double solenoid			1		Non-l		<u> </u>		уре		ı	J sk	de			A	À					D sid	ie	
	tion closed center tion exhaust center					Push- slotte			ng					(H)	00	n				e e		'n	٩		4
	tion pressure center					Push- lever		locki	ng					堰			•8	•8	10	٠.	ø	Н	Ь		43
	e station table below.							40.					08			8	П		1			188	P		4,
Pilot	Internal pilot				•	con		tor				-	=	18		1	誾		× 8		4	11	Р		100
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	ısing an external pilot val riate box for "External Pilo																y	y .	9	7 5	1				127
3 Stati	ons																								
	ayout of valves, etc	c., with a	"O". H	oweve	er, fo	r an i	inter	face	reg	gulat	or v	vith	gau	ıge, i	indi	cate	witl	ha'	"G"	inst	ead	of '	'O".		43P
Stat	ions or layout			2	20 1	9 18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	Quantity	0 8
2 position	Double Soleriold																								45
3 position	Closed center Exhaust center			$+\Gamma$	+	+		H																	01.6
	Pressure center N.C. single																								45
3 port valve	N.C. double																								45-NA
	N.O. single N.O. double						<u> </u>																		
	olate assembly oilot specification																								45
(Enter onl	y for external pilot) SUP/EXH block assembly				_																				
specifications		y			Ι.	1,	<u> </u>	Ļ	Ļ	Ļ	Ļ	Ļ		Ļ	Щ	_	Н				Ļ	Ļ	Ļ		
SUP bloc EXH bloc	k disc k disc (2 pcs./location)	+				+	+			+	+	+			+	+	+		+		+	+			
Indivi	dual SUP spacer assembly				T	T				Ľ		Ľ									Ľ	Ľ			
	dual EXH spacer assembly ace regulator (P regulated																								< (
	ace regulator (A1 regulated ace regulator (B1 regulated				\top																				valve
	rire assembly for use betw	<u> </u>	alves and o	onnect	or box	is incl	uded	with t	the m	ı nanifo	ld, th	erefo	re its	spec	ificati	on is	not n	eces	sary.		I	1	1	<u> </u>	0
 SUP block 	ate assembly: SX5000-76-1A disc: SX5000-77-1A disc: SX5000-77-1A (2 pcs./loc	• Inc		pacer as	ssembl	y: SY50 □-□-2	00-39-2	2A • \$	SUP/E	XH blo														SX5000-51-4A): SX5000-51-5A	operated
ter ordered p			01			-	or SI	vic U							T-	\+. /	 	0	Or :-						
	Part no.		Qty.	+	+				Pa	ırt no					1	ty.	+		er no k (co))				made
] [1		ot. co						
				4 [\perp										1		┤ ゙	Note 1	asse	mbly r	mounti	ing pos	sition, li	e SUP/EXH block st its part number	spec. sheets
																	┙	Note 2	2) Refe	r to pa			ianifold d 158 fo	type. or 3 port valve part	<i>ω</i> : ′
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								SI	VIC.										regu	iator p	ait Nu	mbers	•	204	aut

Precautions

 Part no.
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 Order no.

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 Dept. code

 Note 1) For sp
 SUP/E

Note 1) For special specifications of the SUP/EXH block assembly mounting position, list its part number and quantity with the manifold type.

Note 2) Refer to pages 157 and 158 for 3 port valve part numbers.

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SY500)0: D-sub	C	or	ne	ct	Oľ	'				Conta				+												+
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mmon spec	ification •		ㄷ	╌		Т	۲۲		_		_		η		٠	تـــــــ		of r	equir	ed st					ne nu ation	ımber s)	
	ive COM mounting		nector esition	•									<u> • ∨</u>		_		eci	fica	tion)							
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Symbol Stati	ione A	lote	Stati	ons •			nounti							Syn	_			•	ation		_ =	C8	ø8 (One-	toucl	h fitting	g
02 2 stat	tions		ooifioo	tion			ool Mou	<u> </u>		App	licable	statio	ons	N					rnal	pilot		M			/lixed		_
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20 20 sta	ations ` ' es the number of blanking p				- [В		oth si			o 20 s		ns	R			<u>'</u>		-ın sile t-in sile		-		instea statio		"○" in le.	the	
Note 2) Two sta	ations are required for valve	es oth	ner than			* For	special s		cial s	•			_		e) Aı	n ast	erisk	(*) ir	ndicat		-						
	id, because they are dual b	ouy ty	ype.				speciai s on table		auons	, iridic	ate in	uie			or	der n	nade			mum	num	ber o	of valv	es: 2	0 stati	ions	\
Valve	Туре																							oids a	re app	olicable	
er the syml	bols for required s	peci	ficati	ons a	s indi	icate	ed bel	ow.											@	6	0 0	0)			station	16
		_	_			_	\widehat{A}	Rate	d vo	ltac	је								7	-0	19	4	Ψ.			lsipec	
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Type of act	tuation/Body optic	on .	Pilo	t typ	e _		(B) I	/lanı	ıal o	ver	ride)				0	1 17	হা		п		П	1	8	0		
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SMC

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Enter ordered part numbers.

Part no.

Qty.

Part no. Qty.

Order no.
Clerk (code no.)
Dept. code

Note 1) For special specifications of the SUP/EXH block assembly mounting position, list its part number and quantity with the manifold type.

Note 2) Refer to pages 157 and 158 for 3 port valve part numbers.

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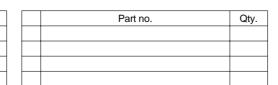
208

Enter ordered part numbers.

Part no.

209

For mixed port sizes



For SMC use only

Order no.
Clerk (code no.)
Dept. code

Note 1) For special specifications of the SUP/EXH block assembly mounting position, list its part number and quantity with the manifold type.

Note 2) Refer to pages 157 and 158 for 3 port valve part numbers.

Qty

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		n closed center boo		R When		g an e			- T	D		ısh-tı otted			ng	_			l		ě	0	0 0	0	OII	1		11P
	-	exhaust center type	9	valve	, ente	ra"O' box f	" in th	e ·	_	E	Pu	ısh-tı	urn k		ng	_				1	56	ш						0 0
▼	ndicate in the s	tation table below.		Pilot S	Specif	fication	า".				lev	er ty	ре			_	C	onnec	ator b	lock	7	-		F'			lenoid	5.4
3	Statio	ns																		_			- 3 pos		suble so	olenok	d	2Pe
• Er	nter a "O" f	or one station for										_										or bloo	ck is not i	nclude	ed with t	he stat	tions or layout.	
• Er		over two stations	for a	dou	ıble	sole	noi		<u> </u>	_	_		<u> </u>		_						ŕ							Type 43P
	Statio	ns or layout			-			16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	Quan	ntity			P%
	2 position	Single solenoid Double solenoid	j i																									L,
		Closed center																										Type 45
	3 position	Double solenoid Closed center Exhaust center Pressure center			-	-					-	-										_						
		N.C. single																										Type 45-%
a	3 port valves	N.C. double																										₹> 0
	o port raines	N.O. single																										F 4
	Blanking pla	N.O. double ate assembly			+																							55
	External pil	ot specification																										₼
	1	for external pilot)																										
(b)	Special SU specifications	JP/EXH block assemb	У		+																							
(c)	SUP block					Ί					Ί	Ί										Ί						
		disc (2 pcs./location)																										
[Ent	ry example]	one or leveut	_//	,	T =	T 4			4	_	Votes		olata s	accar	mhlv:	SYEN	nn_76	S-2A		• 9	I ID/I	-YH F	olock acc	amhlu	(etand	ard). S	\$Y5000-51-2A	V α α
_	Stati	ons or layout Single solenoid	+ (6	5	4 C6	3	2	0			king p block						<i>)</i> -2A								,	3X5000-51-2A 5000-51-6A	3 port valve
a	2 position	Double solenoid	+	С	8	50				+ •	EXH	block	disc	: SX5	5000-	77-1A	(2 pc	cs./loc	ation	,						,	5000-51-7A	
	<u> </u>	-		+ -	1	†	-	-	-	+										• 8	UP/I	:AH Ì	JUCK ASS	ernoly	(KO TY	pe): S.	X5000-51-8A	Air operated
F	a.d !	For mixed port s	izes -							F	or SI	MC u	se o	nly	_													rted
⊨nte	er ordered par	rt numbers. Part no.			Т	Qty.			Т				Pa	rt no	<u> </u>					Qty.	٦	Or	der no.					
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Note 1) For special specifications of the SUP/EXH block assembly mounting position, list its part number and quantity with the manifold type.

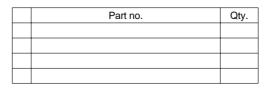
Note 2) Refer to pages 157 and 158 for 3 port valve part numbers.

210

Enter ordered part numbers.

Part no. Qty.

211



Order no.
Clerk (code no.)
Dept. code

Note 1) For special specifications of the SUP/EXH block assembly mounting position, list its part number and quantity with the manifold type.

Note 2) Refer to pages 157 and 158 for 3 port valve part numbers.

Cop	y this page	for use as ne	eded.																	Date: / /	
C	VEOC	M. Elet	ם:וים	, b	- L	<u></u>	اطم	ما	10	D:	.			C	Cust	ome	er name				Fec
		0: Flat			ווע	Ui	aDl	IE	IU	71	118			C	ont	act	person				Features
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M	anif	old Sp	<u> </u>	ifi	ic	at	in	n	C	h	عد	14		Р	urch	nase	order no.				
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_	S5Y5		Ρŀ	. г		L	Г											1		ail longer than the specified	20 20
	mon specif			- L	┖		╌			┌┤;.	···· _[i		Н			: <u>.</u>			essary, indicate the number ations. (Max. 20 stations)	23
Nil			mour		nnec		•											e specif	ication	·	13 2
N	Negative		Symbo				tion										Nil 24V 12V 12V			A/B port size	
			Ů		U si	de								ا				EXH block		Symbol Specification C4 Ø4 One-touch fitting	20P
			<u>D</u>		D si					SUF	P/E)	(H bl	lock	ass	emb	ly		nbly spec		C6 Ø6 One-touch fitting	ס ק
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	,	tations	alo wi			ficat	tion		S	ymbo	ol	Мо		ng p		on			ternal pilot	M Mixed	23P
	i .	: (Un to	igle wi o 8 sol	_	•)		U D	+			J side D side			— R*	Externa		Note) For mixed mounting, indicate C4, C6 or C8	
		tations (op to				•		_		В			Bot	th sic	les				uilt-in silencer Built-in silencer	instead of "O" in the station table.	< <u>C</u>
	Note 2) Two	stations are require	ed for v	alves o	other t	than :				M				speci			Note) An a	sterisk (*) in	dicates order		valve
		noid, because they	are dua	ai DOdy	у іуре					or spe tation t				ກາຮ, in	uicate	ın th	e made	products.	/ Maximum ni	umber of valves: 8 stations \	
2	Valve	Type																		to 8 solenoids are applicable.	-
Ente	r the sym	bols for requi	ired s	peci	fica	tion	s as	inc	licat	ed be	elov	N.							(n)(i)	 ① ① Valve stations ② ② ① Layout 	41
				_						(A)	Ra	ated	vo	oltag	је				1	(for special specifications)	
S	Y5 <u>*</u>	** *	_ —	Ţ		F	U				5 6	24V 12V	/DC				U sid	· ATT		D side	42
Г		_		A)			B)					orresp e spe			tne		a +a a	10 10	_
∳ T	ype of act	∟ tuation/Body	optio	on (Pil	lot 1	type	,		\bigcirc	Ma	anu	al c	ver	ride	•			1 I	80	34
1	40 2 position	n single solenoid S			Nil	_	nterna		lot		Nil	Nor	n-loc	king	nush	tyne	-	HIII	O DA D D		
		n double solenoid n closed center	Dual	_	R		xterr	<u> </u>		_				urn lo		• •	_		000	0 0	4.
_		n exhaust center	body type				g an ex				D			type		9	_	100			41P
1		pressure center		а	approp	riate	box for ication	or "Ex		1	E		sh-tı er ty	urn lo /pe	ockir	g		100		احالبالعا	- (1
7		tation table below.			0	r	. saciOII						. y				Connect	tor block	7 7	Single solenoid Double solenoid	4.5
(3)	Statio	ons																	3 positi	on	2P
		or one statio								2	_,					L -		•		ncluded with the stations or layout.	
- ∟n		ns or layout	ons t	or a	aou	9IQ	sole	noi	_		_		_	·	_			e below.)			43P
		Single solenoid	d				\vdash		8	7	6	5	4	3	2	1	Quantity				70
	2 position	Double solenoid								\vdash											
		Closed center	o the xampl																		45 45
	3 position	Exhaust center	-1 ## =		oxdot		\Box		<u> </u>	\prod											a
		Pressure center N.C. single	_ _ ∞ <u>_</u> ∞				\vdash		-	\vdash											45
a	O martin 1	N.C. double					\vdash			\vdash											\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	3 port valves	N.O. single																			-
		N.O. double																			45
		ate assembly							_					_							
	∟xternal pil (Enter only	ot specification for external pilo	ot)																		
6	Opoolai	JP/EXH block ass	sembly																		
Ь	specifications			Ļ	П		П	Ţ	L	П	Ţ					Ļ					
©	SUP block		Ale: Y			_	_	-		_	+	\perp				_					
		disc (2 pcs./loca	ation)																		
L⊏ntr	y example] Stati	ons or layout		_//	6	_		3	2	1	_	lotes: Blank	ina r	olate s	gggan	hlv.	SX5000-76-2A	• \$115	P/FXH block asse	embly (standard): SX5000-51-2A	Va -
	Siati	Single soleno	oid	$+ \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	ь	5	4 C6	3	_	0			٠.				77-1A			embly (R type): SX5000-51-6A	valve
(a)	2 position	Double solen		+	С	8	50	(- •	EXH	block	k disc	SX5	000-7	77-1A (2 pcs./loca	,		embly (S type): SX5000-51-7A	
}				+//-	<u> </u>	<u> </u>	+	<u> </u>			-							• SUF	'/EXH block asse	embly (RS type): SX5000-51-8A) pei
		For mixed p	port siz	es -							Fo	or SM	IC ::	ise o	nlv	_					operated
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		Part no.					Qty.							Pa	rt no			Qty.	Order no.		ma
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								_											Dept. code		
						-		4	-										SUP/E	ecial specifications of the EXH block assembly mounting	spec. sheets
Ш																			quanti	on, list its part number and ty with the manifold type.	spec. sheets
																			Note 2) Refer valve	to pages 157 and 158 for 3 port part numbers.	
													. CI	MC	h					212	Precal

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Copy this page for use as needed. Date: Customer name SY3000: Terminal Block (9 Pins) Contact person Plug-in, DIN Rail Manifold Specification sheet no. **Manifold Specification Sheet** Purchase order no Equipment name Follow procedures 1 through 3. set(s) Required date Quantity 1 Manifold Type Enter the symbols for required specifications in the boxes below. SS5Y3-45 T When a DIN rail longer than the specified stations is necessary, indicate the number of required stations. (Max. 20 stations) Connector mounting position A/B port size Symbol | Mounting position Symbol Specification SUP/EXH block U side C4 ø4 One-touch fitting assembly specification SUP/EXH block assembly D side C6 ø6 One-touch fitting Specification mounting position М Mixed Stations • Standard/Internal pilot Symbol Mounting position Note) For mixed mounting, Symbol Stations Note External pilot R* indicate C4 or C6 instead of "O" in the U side 02 2 stations S* Internal pilot/Built-in silencer Single wiring specification D D side station table. (Up to 8 solenoids applicable) External pilot/Built-in silencer R Both sides 08 8 stations Note) An asterisk (*) indicates order Special specifications М Note 1) Includes the number of blanking plate assemblies made products Note 2) Two stations are required for valves other than single solenoid, because they are dual body type. For special specifications, indicate in the Maximum number of valves: 8 stations station table below However, up to 8 solenoids are applicable. 2 Valve Type (R)---(3) (2) (1) ----- Valve stations --4 3 2 1--- Layout | | | | | | | (for special | | | | | | | | specifications) Enter the symbols for required specifications as indicated below. (A) Rated voltage * * * U side D side 24VDC 12VDC (B) 8 (B) Manual override Type of actuation/Body option ◆ Pilot type 140 2 position single solenoid Standard Nil Internal pilot Non-locking push type 245 2 position double solenoid External pilot 345 3 position closed center Push-turn locking body D When using an external pilot valve, enter a "O" in the appropriate box for "External Pilot Specification". slotted type 445 3 position exhaust center type Push-turn locking 545 3 position pressure center lever type Single solenoid Indicate in the station table below Connector block Double solenoid 3 position Stations Note) The connector block is not included with the stations or layout. • Enter a "O" for one station for a single solenoid type. • Enter a "O" over two stations for a double solenoid or 3 position type. (See the entry example below.) Stations or layout Single solenoid 2 position Double solenoid to the example. Closed center 3 position Exhaust center Pressure center N.C. single (a) N.C. double 3 port valves N.O. single N.O. double Blanking plate assembly External pilot specification (Enter only for external pilot) SUP/EXH block assembly SUP block disc EXH block disc (2 pcs./location) [Entry example] • Blanking plate assembly: SX3000-75-2A • SUP/EXH block assembly (standard): SX3000-51-2A Stations or layout 6 5 4 3 2 SUP block disc: SX3000-77-1A • SUP/EXH block assembly (R type): SX3000-51-6A Single solenoid C4 0 • EXH block disc: SX3000-77-1A (2 pcs./location)

(a) 2 position Double solenoid C 6 For mixed port sizes

- SUP/EXH block assembly (S type): SX3000-51-7A
- SUP/EXH block assembly (RS type): SX3000-51-8A

For SMC use only

Part no.	Qty.

Part no.	Qty.

Order no.	
Clerk (code no.)	
Dept. code	

Note 1) For special specifications of the SUP/EXH block assembly mounting position, list its part number and quantity with the manifold type.

Note 2) Refer to pages 157 and 158 for 3 port valve part numbers.

Enter ordered part numbers

Сор	y this page	for use as needed.																ı	Date: /	/	
	VEOC	0. Tar	اے	ים		1-	/ 0	D:	.			C	Cust	om	er name				<u>·</u>		Features
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PI	ug-in, DII	N Rail Manifold										s	pecif	icatio	on sheet no.						S
					4:4	.		٦ ٢		~1		\vdash			order no.						
IVI	anito	ld Spec	ITI	C 3		J	1 2	n	e	35		\vdash			ent name						< <u>S</u>
Foll	ow proced	ures ① through ③).									\vdash	Quai			set	(s) Require	ed date			Single valve
1	Manifo	old Type										Ľ		,			(o) rtoquire	od date	<u> </u>		
Symon 0 0 Note Note Sento	mount Symbol Symbol Up D Station 2 2 station 1 Includes the 22 Two station solenoid, because 4 2 position 245 2 position 245 3 position 345 3	U side D side D side D side D side D side No. Single wiring (Up to 8 solence) Conside (Up to 8 solence) Consider (Up	Specification of the specifica	Static Cification Applic Pilic Nill R	on able) e t typ Inter Exte ing an neter a "("	extension of form	Syrn * For stati	SUP mounbol J J D B M specific on tal	/EXIntin	Boecial Beceificate atec 244 124 No Pu slo	using Using Discourse Disc	assoon poside de de sides indica indica	emkition sationate in	sh ty	SUP/EX assemb Symbol Nil S R* S* Inte RS* Exte Note) An aste made p	tion In a DIN racons is neceptive depicted state (H block bly specification of the content of t	fication identification identificati	e the nur stations A/ Symbo C4 C6 C8 M Note) F iii	B port siz Specific Ø4 One-tou Ø6 One-tou Mixe For mixed moundicate C4, Cf ststead of "O" tation table. If valves: 8 sta	cation Ich fitting	e Type Type Type Single Type Type Type Type 20 23 20P 23P valve 41 42 43 41P
3 • En	Statio	ns on table below. Ins or one station for a ver two stations fo						- 3 p	osit	ion t	vpe	. (S	ee t	he e	Not	te) The conn	ector block is not	aition	ble solenoid		1ype 42P
		ns or layout				T	8	7	6	5	4	3	2	1	Quantity	<u>-</u>	-				43⊻
	2 position	Single solenoid		_	+	\perp	-					1				_					ype 43P
	3 position	Double solenoid Closed center Exhaust center Pressure center														- - -					1 ype 45
		Pressure center			+	+						-				-					
(a)	2 nort	N.C. double			+	+										-					1 ype 45- NA
	3 port valves	N.O. single														_					× ≥ 0
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	specifications SUP block of	lisc	\dashv	\perp	\vdash	\perp	\dashv	4	1	1	4	4	4	4	1	-					
©		lisc (2 pcs./location)	+					+	+		+	+	+	+		-					
[Ent	ry example]									Notes:						_					
(a)	Station 2 position	Single solenoid Double solenoid		6 C 8	5 4 C	_	0	1	ϯ・	SUP	block	k disc	: SX5	000-	SX5000-76-2A 77-1A 77-1A (2 pcs./loo	• St cation) • St	JP/EXH block as JP/EXH block as JP/EXH block as JP/EXH block as	sembly (f	R type): SX500 S type): SX500	0-51-6A 0-51-7A	3 port valve
		For mixed port size	es —						_				!								Alr
Ente	r ordered part	·							F	or SN	/IC u	se o	nly	_							Air
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																	SUF posi with Note 2) Refe	P/EXH bloot tion, list its the manif	s 157 and 158 f	ounting and quantity	Manifold spec. sheets

SMC

Note 1) For special specifications of the SUP/EXH block assembly mounting position, list its part number and quantity with the manifold type.

Qty.

Order no.

Clerk (code no.)
Dept. code

Note 2) Refer to pages 157 and 158 for 3 port valve part numbers.

For SMC use only

Part no

Enter ordered part numbers.

For mixed port sizes

Qty.

Part no

3 port Air Or valve operated ma

Manifold spec. sheets

Precautions

Clerk (code no.) Dept. code

Note 1) For special specifications of the SUP/EXH block assembly mounting position, list its part number and quantity with the manifold type.

Note 2) Refer to pages 157 and 158 for 3 port valve part numbers.

Copy this page for use as needed. Date: **SY3000:** PC Wiring System Compatible Flat Ribbon Cable 20 pins Customer name Contact person Plug-in, DIN Rail Manifold Specification sheet no. **Manifold Specification Sheet** Purchase order no Equipment name Quantity set(s) Required date Follow procedures (1) through (3). 1 Manifold Type Enter the symbols for required specifications in the boxes below. Option SS5Y3-45G When a DIN rail longer than the specified stations is necessary, indicate the number of required stations. (Max. 20 stations) Connector mounting position A/B port size Symbol Mounting position Symbol Specification SUP/EXH block U side ø4 One-touch fitting C4 assembly specification SUP/EXH block assembly D ø6 One-touch fitting C6 Symbol Specification mounting position Stations 4 М Mixed Standard/Internal pilot Symbol Mounting position Applicable stations Note) For mixed mounting. Symbol Stations External pilot R indicate C4 or C6 instead of "O" in the U side 02 2 stations 2 to 10 stations Internal pilot/Built-in silencer s Single wiring specification D side D station table. (Up to 16 solenoids applicable) RS External pilot/Built-in silencer В Both sides 2 to 16 stations 16 stations Special specifications Note 1) Includes the number of blanking plate assemblies Maximum number of valves: 16 stations Note 2) Two stations are required for valves other than single solenoid, because they are dual body type. For special specifications, indicate in the However, up to 16 solenoids are applicable. station table below @ - - ② ② ① ---Valve stations -- (3 2 1 - Layout (for special specifications) 2 Valve Type Enter the symbols for required specifications as indicated below. D side U side * * * (A) Manual override ø Type of actuation/Body option Pilot type Non-locking push type 140 2 position single solenoid Standard Internal pilot Push-turn locking 245 2 position double solenoid Dual External pilot 345 3 position closed center body Push-turn locking lever type 445 3 position exhaust center When using an external pilot valve, enter a "O" in the appropriate box for "External Pilot Specification". type 545 3 position pressure center Single solenoid Indicate in the station table below Double solenoid position 3 Stations Note) The connector block is not included with the stations or layout. • Enter a "O" for one station for a single solenoid type. • Enter a "O" over two stations for a double solenoid or 3 position type. (See the entry example below.) [For mixed specifications of A/B port sizes, enter C4 or C6 in the (a) section.] Stations or layout 20 19 18 17 16 15 14 13 12 11 10 9 8 6 Single solenoid 2 position Double solenoid Closed center 3 position Exhaust center Pressure center N.C. single (a) N.C. double 3 port valves N.O. single N.O. double Blanking plate assembly External pilot specification (Enter only for external pilot) SUP/EXH block assembly SUP block disc (C) EXH block disc (2 pcs./location) [Entry example] • Blanking plate assembly: SX3000-75-2A • SUP/EXH block assembly (standard): SX3000-51-2A 2 Stations or layout 6 5 4 3 SUP block disc: SX3000-77-1A • SUP/EXH block assembly (R type): SX3000-51-6A Single solenoid C4 2 position • EXH block disc: SX3000-77-1A (2 pcs./location) • SUP/EXH block assembly (S type): SX3000-51-7A Double solenoid C 6 • SUP/EXH block assembly (RS type): SX3000-51-8A For mixed port sizes For SMC use only Enter ordered part numbers Qty.

Part no.

Order no. Clerk (code no.) Dept. code

Note 1) For special specifications of the SUP/EXH block assembly mounting position, list its part number and quantity with the manifold type.

Note 2) Refer to pages 157 and 158 for 3 port valve part numbers.

Qty.

Part no

Order no. Clerk (code no.) Dept. code

Qty.

Note 1) For special specifications of the SUP/EXH block assembly mounting position, list its part number and quantity with the manifold type.

Note 2) Refer to pages 157 and 158 for 3 port valve part numbers.



Part no

Qty.

Enter ordered part numbers

Part no

218

External pilot specification (Enter only for external pilot)

EXH block disc (2 pcs./location)

Notes: • Blanking plate assembly: SX3000-75-2A

• EXH block disc: SX3000-77-1A (2 pcs./location)

Qty.

Part no

SUP block disc: SX3000-77-1A

Special

SUP block disc

Enter ordered part numbers

b

SUP/EXH block assembly

• SUP/EXH block assembly (standard): SX3000-51-2A

SUP/EXH block assembly (R type): SX3000-51-6A

For SMC use only

Part no

SUP/EXH block assembly (S type): SX3000-51-7A
SUP/EXH block assembly (RS type): SX3000-51-8A

Note 1) For special specifications of the SUP/EXH block assembly mounting position, list its part number and quantity with the manifold type.

Note 2) Refer to pages 157 and 158 for 3 port valve part numbers.

Order no.

Clerk (code no.)

Dept. code

Qty.

port Air alve opera

Air operated

made

Manifold spec. sheets

SMC

SUP/EXH block assembly (R type): SX5000-51-6A

For SMC use only

Part no

SUP block disc: SX5000-77-1A

Enter ordered part numbers.

• EXH block disc: SX5000-77-1A (2 pcs./location)

Part no

Qty.

220

SUP/EXH block assembly (RS type): SX5000-51-8A

Note 1) For special specifications of the SUP/EXH block assembly mounting position, list its part number and quantity with the manifold type.

Note 2) Refer to pages 157 and 158 for 3 port valve part numbers.

Order no.
Clerk (code no.)
Dept. code

Qty.

	for use as needed.							_													D	ate	: /	/ /
SASUU	D: Serial W	irino	1/9	۵n	2r	2ŧ/	ر4 <i>ر</i>			Cust	ome	er na	ame	;										
		11 1119	, (3	<u>c</u> h	ai	alt	<i>u</i>			Cont	act	pers	son											
Plug-in, DI	N Rail Manifold								(Specit	icatio	n she	eet no	0.										
Manif	Jd Chaa	fi	\4i_	\n	C	h	10	4	Π	Purcl	nase	ord	er no	0.										
	old Speci		allC	<i>)</i>	J	110	けせ	L	Π	Equi	pme	ent r	nam	е										
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221

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	(a) (b) (c) (Ent	Station 2 position 3 position 3 position 3 port valves Blanking pl External pii (Enter only Special St. specifications SUP block EXH block ry example] Stati 2 position	For one station for over two stations of layout Single solenoid Double solenoid Closed center Exhaust center Pressure center N.C. single N.C. double N.O. single N.O. double late assembly lot specification for external pilot) JP/EXH block assemil disc disc (2 pcs./location cons or layout Single solenoid Double solenoid For mixed port rt numbers.	edme system syst	/ (3 5	4 C6	noid 3	2	1	Notes • Blan • SUP • EXH	12 12 12 12 12 12 12 12 12 12 12 12 12 1	111 10 11 11 11 11 11 11 11 11 11 11 11	embly:	SX50	7	Not mpl 6	e) The bee bee 5	• \$ • \$ • \$ • \$ • \$ • \$	nector 3	ZXHI EXHI EXHI EXHI EXHI Cle Dee Note	block block block cder i 1) For ass	asser asser asser d quantit	mbly (mbly (mbly (mbly (mbly ((stann (R tyr (S tyr (RS t	the s	i: SX500 SX5000-t SX5000-t SX5000 he SUP/EX list its part d type.	0-51-2A 51-6A 51-7A -51-8A KH block number	43P 45 45-NA 45 valve operated made sheets

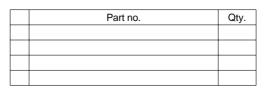
Part no

For mixed port sizes

Qty.

Enter ordered part numbers.

223



For SMC use only

SMC

Order no. Clerk (code no.) Dept. code

Note 1) For special specifications of the SUP/EXH block assembly mounting position, list its part number and quantity with the manifold type. Note 2) Refer to pages 157 and 158 for 3 port valve part numbers.

Note 3) List the SI unit part number.

ØSVC

Qty.

Part no

Enter ordered part numbers

Part no

Qty.

Clerk (code no.)

Dept. code

Note 1) For special specifications of the SUP/EXH block assembly mounting position, list its part number and quantity with the manifold type.

and quantity with the manifold type.

Note 2) Refer to pages 157 and 158 for 3 port valve part numbers.

Note 3) List the SI unit part number.

Order no.

224

SY3000: For Serial, OMRON Transmission Unit

Plug-in, DIN Rail Manifold

Manifold Specification Sheet

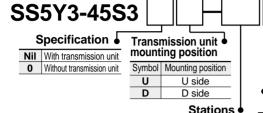
Follow procedures 1) through 3).

Date: Customer name Contact person Specification sheet no Purchase order no. Equipment name Quantity set(s) Required date

When a DIN rail longer than the specified

1 Manifold Type

Enter the symbols for required specifications in the boxes below.



Symbol Stations Note 02 2 stations Single wiring specification (Up to 16 solenoids applicable) 16 stations 16

Note 1) Includes the number of blanking plate assemblies Note 2) Two stations are required for valves other than single solenoid, because they are dual body type

stations is necessary, indicate the number of required stations. (Max. 20 stations)

SUP/EXH block assembly mounting position

Symbol	Mounting position	Applicable stations
U	U side	2 to 10 stations
D	D side	2 10 10 314110113
В	Both sides	2 to 16 stations
М	Special sp	ecifications
* Eor coc	cial enocifications	indicate in the

station table below

 SUP/EXH block assembly specification Specification Symbol Nil Standard/Internal pilot R* External pilot Internal pilot/Built-in silencer S*

RS* External pilot/Built-in silencer Note) An asterisk (*) indicates order made products

Maximum number of valves: 16 stations

However, up to 16 solenoids are applicable.

Option

 A/B port size Symbol Specification ø4 One-touch fitting C4 ø6 One-touch fitting C₆ Mixed

Note) For mixed mounting, indicate C4 or C6 instead of "O" in the station table.

. Valve stations

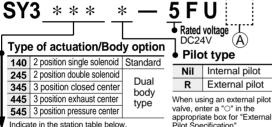
Layout (for special specifications)

(R) (2) (1) ----

0000 D--

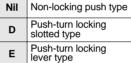


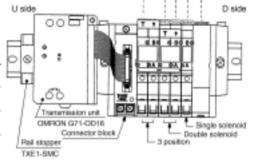
Enter the symbols for required specifications as indicated below.



appropriate box for "External Pilot Specification".

(A) Manual override





Note) The connector block is not included with the stations or layout.

Stations

• Enter a "O" for one station for a single solenoid type.

• Enter a "O" over two stations for a double solenoid or 3 position type. (See the entry example below.)

	Statio	ns or layout				16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	Quantity
	2 position	Single solenoid																				
	2 position	Double solenoid																				
		Closed center	Refer to the entry example.																			
	3 position	Exhaust center	fer to																			
		Pressure center	e e e																			
(a)		N.C. single																				
	3 port valves	N.C. double																				
	5 port vaives	N.O. single																				
		N.O. double																				
	Blanking pla	ate assembly																				
	External pil (Enter only	ot specification for external pilot)																			
_		IP/EXH block ass	embly																			
Ь	specifications																					
(c)	SUP block	disc																				
U	EXH block	disc (2 pcs./locat	ion)																			
(C)	EXH block	disc (2 pcs./locat	ion)																			

[Entry example] Stations or layout 5 4 3 2 1 C4 Single solenoid 2 position (a) Double solenoid C 6

Notes:

- Blanking plate assembly: SX3000-75-2A
- SUP block disc: SX3000-77-1A
- SUP/EXH block assembly (standard): SX3000-51-2A
- SUP/EXH block assembly (R type): SX3000-51-6A • EXH block disc: SX3000-77-1A (2 pcs./location) • SUP/EXH block assembly (S type): SX3000-51-7A
 - SUP/EXH block assembly (RS type): SX3000-51-8A

For mixed port sizes For SMC use only

Ente	r ordered part numbers.	
	Part no.	Qty.

Part no.	Qty.

Order no.	
Clerk (code no.)	
Dept. code	

Note 1) For special specifications of the SUP/EXH block assembly mounting position, list its part number and quantity with the manifold type.

Note 2) Refer to pages 157 and 158 for 3 port valve part numbers.



Single solenoid C6 2 position Double solenoid C 8 For mixed port sizes

• EXH block disc: SX5000-77-1A (2 pcs./location)

• SUP/EXH block assembly (S type): SX5000-51-7A

• SUP/EXH block assembly (RS type): SX5000-51-8A

For SMC use only Enter ordered part numbers

Part no.	Qty.

Part no.	Qty.

Order no.	
Clerk (code no.)	
Dept. code	

Note 1) For special specifications of the SUP/EXH block assembly mounting position, list its part number and quantity with the manifold type.

Note 2) Refer to pages 157 and 158 for 3 port valve part numbers.

operated

Customer name			
Contact person			
Specification sheet no.			
Purchase order no.			
Equipment name			
Quantity	set(s)	Required date	

SS5Y5-M

45 —]
FXH block assembly mounting position	

Specification

Nil Standard/Internal pilot Built-in silencer

Note 1) An asterisk (*) indicates order made products.

mounting types.

(B) Electrical entry

L type plug

M type plug

connector

G Grommet (lead wire length 300mm)

Grommet (lead wire length 600mm)

With lead wire

Without lead wire

Without connector

With lead wire

Without lead wire

Without connector

Note 2) External pilot is not

(D)

LN

LO

М

MN

Symbol

● 20P	LEXH DIOCK assem	bly mounting position
Symbol	Mounting position	Applicable stations
U	U side	2 to 10 stations
D	D side	2 10 10 314110113
В	Both sides	2 to 20 stations
M*	Special sp	ecifications

For special specifications, indicate in the station table below

Enter the symbols for required specifications as indicated below.

(B)

(A) Rated voltage

24VDC

12VDC

6VDC

5VDC

AC specifications (50/60Hz)

100VAC

200VAC

110VAC [115VAC] 4 220VAC [230VAC]

R

DC specifications

stations. (Max. 20 stations) Note 2) For the additional length, a DIN rail for SY5000 will be used. B port size

(C	ne-toucl	h fitting)						
Symbol	Applicable	tube size						
Oymboi	SY5000	SY3000						
C44	ø4	ø4						
C46	ø4	ø6						
C64	ø6	ø4						
C66	ø6	ø6						
C84	ø8	ø4						
C86	ø8	ø6						
М	Mix	red						
Note) F	or mixed spe	cifications						

instead of a "O", enter C4 or C6 for SY3000 and C4, C6 or C8 for SY5000 in the a section of the station

(Maximum number of valves: 20 stations) @------ @ ①---- Valve stations ②② ①-Layout (for special specifications) indicate the number of required

Date:

[Notes]

Blanking plate assembly: Blanking plate assembly:

SUP block disc:

SX5000-77-1A EXH block disc: SX5000-77-1A (2 pcs./location)

 Individual SUP spacer assembly: SY5000-38-2A (For SY5000) • Individual EXH spacer assembly: SY5000-39-2A (For SY5000) Individual SUP spacer assembly: SY3000-38-2A (For SY3000)

Individual EXH spacer assembly: SY3000-39-2A (For SY3000)

• SUP/EXH block assembly (standard): SX5000-51-1A SUP/EXH block assembly (S type): SX5000-51-4A

C Indicator light/Surge voltage suppressor

Nil	Without indicator light/ surge voltage suppressor	R	With surge voltage suppressor
s	With surge voltage suppressor		(non-polar) With indicator light/
z	With indicator light/ surge voltage suppressor	U	surge voltage suppressor (non-polar)

Note 1) For AC, there is no "S" specification, since it is integrated with the rectifier. Note 2) "R" and "U" are available for DC only

(D) Manual override

SX5000-76-1A (For SY5000)

SX3000-75-1A (For SY3000)

	Nil	push type
- r	D	Push-turn locking slotted type
-	E	Push-turn locking lever type

Stations

Stations

Symbol Stations

02 2 stations

20 20 stations

Includes the

blanking plate assemblies.

Series

2

3

4

2 Valve Type

SY5000

SY3000

Type of actuation

1 2 position single solenoid

2 position double solenoid

3 position closed center

3 position exhaust center

5 3 position pressure center

Indicate in the station table below

* 40

Indicate the layout of valves, etc., with a "O"

	Stations	or layout				20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	Quantity
SY5000		Single solenoid																								
	2 position	Double solenoid																								
		Closed center																								
	3 position	Exhaust center																								
	'	Pressure center																								
		N.C. single																								
	3 port valves	N.C. double																								
	5 port valves	N.O. single																								
		N.O. double																								
ء L	Blanking p	late assembly																								
a -	2 position	Single solenoid																								
		Double solenoid																								
	3 position	Closed center																								
0		Exhaust center																								
8		Pressure center																								
SY3000		N.C. single																								
ဟ	3 port valves	N.C. double																								
	o port varvoo	N.O. single																								
		N.O. double																								
	Blanking p	late assembly																								
<u> </u>	Special	SUP/EXH block assembly																								
b	specifications																									
<u></u>	SUP block	k disc		L'	T.											Ĺ										
©	EXH block	k disc (2 pcs./location	1)																							
	ළ Individ	ual SUP spacer assembly				•		T.					ľ				Γ.	ľ		Γ΄			ľ			
(d)	S Individu	ual EXH spacer assembly																								

Enter ordered part numbers.

Part no.	Qty.

Part no.	Qty.

Order no.	
Clerk (code no.)	
Dept. code	

Note 1) For special specifications of the SUP/EXH block assembly mounting position, list its part number and quantity with the manifold type.

Note 2) Refer to pages 157 and 158 for 3 port valve part numbers.

For SMC use only

SMC

Note 2) Refer to pages 157 and 158 for 3 port valve part numbers.

228

Compatible SI units

Symbol	SI unit	Manufacturer/Organization		
Α	EX300	SMC		
В	MELSECNET/MINI-S3 Data Link System	Mitsubishi Electric Corporation		
С	SYSBUS Wire System	OMRON Corporation		
D	Satellite I/O Link System	SHARP Corporation		
Е	MEWNET-F System	Matsushita Electric Works		
F1	Uni-wire System (16 outputs)	NKE Corporation		
G	Allen-Bradley Remote I/O System	Rockwell Automation		
Н	Uni-wire H System	NKE Corporation		
J1	S-Link System (16 outputs)	SUNX Corporation		
J2	S-Link System (8 outputs)	SUNX Corporation		
K	T Link Mini System	Fuji Electric Co., Ltd.		
Q	DeviceNet	ODVA		
R1	CompoBus/S (16 outputs)	OMRON Corporation		
R2	CompoBus/S (8 outputs)	OMRON Corporation		
U	JEMANET (JPCN-1)	The Japan Electrical Manufacturer's Association		
٧	CC-Link System	Mitsubishi Electric Corporation		





Series SY3000/5000/7000/9000

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

Marning

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.
- 2. 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.

3 port Air valve operated

Order N

anifold spec. sheets





Series SY3000/5000/7000/9000 3, 5 Port Solenoid Valve Precautions 1

Be sure to read before handling.

Design

△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 piston 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. Especially when operating an air operated valve or a single acting cylinder, or using a 3 position exhaust center valve, malfunction may occur due to the exhaust from the other actuators. In cases where there is a danger of back pressure influence, take countermeasures by selecting a valve with back pressure check valve, or using a supply/exhaust block assembly and an EXH block disc, etc.

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 (removal of valve, etc.).

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. Using double solenoid valves

When newly using double solenoid valves, the actuator may move in an unexpected direction depending on the valve switching position. Take measures to prevent the danger caused by the actuator's movements.

10. Ventilation

When a valve is used inside a sealed control panel, etc., provide ventilation to prevent a pressure increase caused by exhausted air inside the control panel or a temperature increase caused by the heat generated by the valve.

Selection

△Warning

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 the 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

Use a DC specification or an energy saving type if valves will be continuously energized for extended periods of time, or the energized period will be longer than the de-energized period. Contact SMC regarding other products available for AC specifications.

△Caution

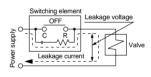
1. Momentary energization

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

However, the cylinder may malfunction depending on the secondary load conditions; therefore, 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) for protection of the switching element, take note that leakage voltage will increase due to leakage current flowing through the C-R element. Therefore, select a circuit or an element in advance



to limit the amount of residual leakage voltage to the values shown below. Also, if return malfunction occurs due to the leakage voltage, install a bleeder resistor. Contact 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, an external pilot type should be used.

Note that the pressure drop caused by the air blowing can have an effect on the internal pilot type valves when internal pilots and external pilots are used on the same manifold.

Furthermore, supply compressed air to the external 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 orientation

The mounting orientation is unrestricted.

Series SY3000/5000/7000/9000 3, 5 Port Solenoid Valve Precautions 2

Be sure to read before handling.

Mounting

△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 tests 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

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

4. Tightening torques

When connecting fittings to valves, tighten as indicated below. 1) 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, e.g., 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.

2) Rc threads

Fasten with the proper tightening torques as shown below.

Connection threads	Proper tightening torque N⋅m
Rc 1/8	7 to 9
Rc 1/4	12 to 14
Rc 3/8	22 to 24
Rc 1/2	28 to 30

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 (indicator 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 connections

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

4. Handling of pilot valves

Be sure that forces exceeding 20N are not applied to the pilot valves due to lead wire deflection and external forces, as this may cause damage.

Lubrication

∆Caution

1. Lubrication

- 1) 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 loss of the original lubricant may lead to malfunction.

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





Series SY3000/5000/7000/9000 3, 5 Port Solenoid Valve Precautions 3

Be sure to read before handling.

Air Supply

△Warning

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 water separator, 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 water separator, etc.

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

If excessive carbon dust 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

Marning

- 1. Do not use valves in atmospheres of corrosive gases, chemicals, salt water, water or steam, or where there is direct contact with any of these.
- 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. A protective cover, etc., should be used 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

Marning

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

Valves should be switched 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)

 $Q = 226S \sqrt{\triangle P(P2 + 0.1013)}$

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 : Pressure drop (P1 - P2) [MPa]

P1: Upstream pressure [MPa]

P2: Downstream pressure [MPa]

* Correction for different air temperatures

Multiply the flow rate calculated with the above formulas 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



Series SY3000/5000/7000/9000 Specific Product Precautions 1

Be sure to read before handling.
Refer to pages 230 through 233 for safety instructions and common precautions.

∆Warning

Manual Override Operation

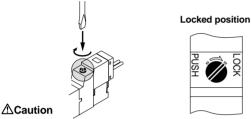
■ Non-locking push type [Standard type]

Push in the direction of the arrow



■ Push-turn slotted locking type [type D]

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

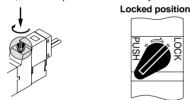


When operating the locking type D with a screw driver, turn it gently using a watchmakers screw driver.

[Torque: Less than 0.1N·m]

■ Push-turn lever locking type [type E]

While pressing, 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 push-turn locking types (D, E), be sure to push it down before turning. Turning without first pushing it down can cause damage to the manual override and trouble such as air leakage, etc.

Note) It can also be operated using the manual override on the pilot valve side.

However, the manual override on the pilot valve side is a non-locking push type only, which is operated by pushing it in the direction of the arrow.



Marning

Solenoid Valves for 200V, 220VAC Specifications

Solenoid valves with grommet and L/M type plug connector AC specifications have a built-in rectifier circuit in the pilot section to operate the DC coil. With 200V, 220VAC specification pilot valves, this built-in rectifier generates heat when energized. The surface may become hot depending on the energized condition; therefore, do not touch the solenoid valves.



Exhaust Throttle

With series SY, the pilot valve and main valve share a common exhaust inside the valve. Therefore, do not block the exhaust port when arranging the piping.

△Caution

Series SY3000, SY5000, SY7000, SY9000 Used as a 3 Port Valve

Using 5 port valves as 3 port valves

Series SY 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. (Refer to pages 157 through 161 for dedicated 3 port solenoid valves.)

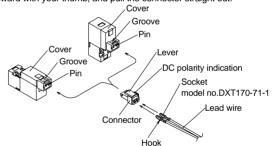
Plug position		B port	A port		
Configuration		N.C.	N.O.		
Number of solenoids	Single	Plug (A) (B) 4 7 2 T 5 1 3 (EA)(P)(EB)	Plug (A) (B) 4 7 2 5 1 3 (EA)(P)(EB)		
	Double	Plug (A) (B) 4 T 2 5 1 3 (EA)(P)(EB)	Plug (A) (B) 4 2 5 1 3 (EA)(P)(EB)		

△Caution

How to Use Plug Connectors

1. Attaching and detaching connectors

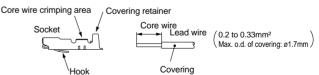
- To attach a connector, hold the lever and connector unit between your fingers and insert straight onto the pins of the solenoid valve so that the lever's pawl is pushed into the groove and locks.
- To detach a connector, remove the pawl from the groove by pushing the lever downward with your thumb,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



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 number DXT170-75-1)



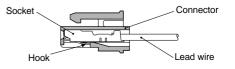
3. Attaching and detaching sockets with lead wires

Attaching

Insert the sockets into the square holes of the connector (+, – 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.



3 port op

operated

Order made

Manifold spec. sheets

234



Series SY3000/5000/7000/9000 Specific Product Precautions 2

Be sure to read before handling Refer to pages 230 through 233 for safety instructions and common precautions.

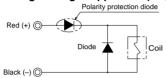
⚠Caution

Surge Voltage Suppressor

<For DC>

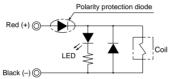
Grommet, L and M type plug connectors

■ Standard type (with polarity) With surge voltage suppressor (□S)



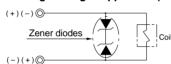


With indicator light/ surge voltage suppressor (□Z)

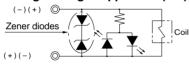


■ Non-polar type With surge voltage suppressor (□R)





With indicator light/ surge voltage suppressor (□U)

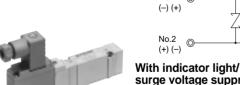


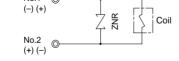
- Connect the standard type in accordance with the +, polarity indication. (The non-polar type can be used with the connections made either way.)
- Since voltage specifications other than standard 24V and 12V DC do not have diodes for polarity protection, be careful not to make errors in the polarity.
- When wiring is done at the factory, positive (+) is red and negative (-) is black.

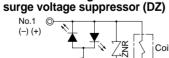
No 2

DIN terminal

With surge voltage suppressor (DS)

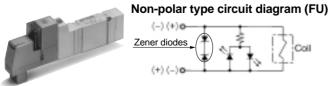


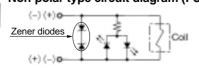




(+)(-)The DIN terminal type does not have polarity

Plug-in Type





Plug-in valves do not have polarity. Therefore, they can be used for both the positive COM (SS5Y $_5^3$ -45 \square) and negative COM(SS5Y $_5^3$ -45N \square).

<For AC>

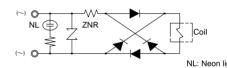
(There is no "S" type, because the generation of surge voltage is prevented by a rectifier.)

Grommet, L and M type plug connectors



DIN terminal

With indicator light (DZ)



Note) Zener diodes and ZNR surge voltage suppressor have residual voltage corresponding to the protective element and rated voltage; therefore, protect the controller side from the surge voltage.

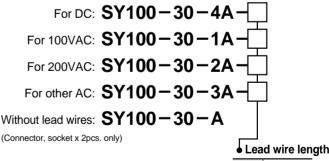
The residual voltage of the diodes is approximately 1V.

. Caution

Plug Connector Lead Wire Length

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

Connector assembly part numbers



Nil	300mm		
6	600mm		
10	1000mm		
15	1500mm		
20	2000mm		
25	2500mm		
30	3000mm		
50	5000mm		

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

For DC For AC SY3120-5LO-M5 SY3120-1LO-M5 SY100-30-4A-20

Series SY3000/5000/7000/9000 Specific Product Precautions 3 Be sure to read before handling. Refer to page 200 through 200 feet to page 200 through 20

Refer to pages 230 through 233 for safety instructions and common precautions.

⚠Caution

How to Use the DIN Terminal Connector

Connection

- 1. Loosen the holding screw and pull the connector out of the solenoid valve ter-
- 2. After removing the holding screw, insert a flat head screw driver, etc., into the notch on the bottom of the terminal block and pry it open, separating the terminal block and the housing.
- 3. Loosen the terminal screws (slotted screws) on the terminal block, insert the cores of the lead wires into the terminals according to the connection method, and fasten them securely with the terminal screws.
- 4. Secure the cord by fastening the ground nut.

∧Caution

When making connections, take note that using other than the supported size (ø3.5 to ø7) heavy duty cord will not satisfy IP65 (enclosure) standards. Also, be sure to tighten the ground nut and holding screw within their specified torque ranges

Changing the entry direction

After separating the terminal block and housing, the cord entry can be changed by attaching the housing in the desired direction (4 directions at 90° intervals).

* When equipped with a light, be careful not to damage the light with the cord's lead wires

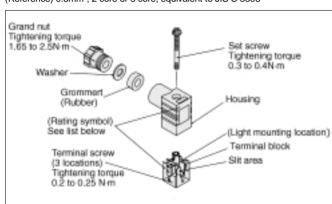
Precautions

Plug in and pull out the connector vertically without tilting to one side.

Compatible cable

Cord O.D.: ø3.5 to ø7

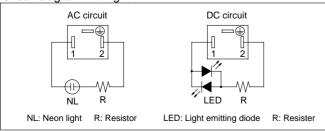
(Reference) 0.5mm2, 2 core or 3 core, equivalent to JIS C 3306



DIN Connector Part Nos.

Without light	SY100-61-1			
With light				
Rated voltage	Rating symbol	Part no.		
24VDC	24V	SY100-61-3-05		
12VDC	12V	SY100-61-3-06		
100VAC	100V	SY100-61-2-01		
200VAC	200V	SY100-61-2-02		
110VAC	110V	SY100-61-2-03		
220VAC	220V	SY100-61-2-04		

Circuit diagram with light



Note) Refer to page 189 for DIN connector conforming to DIN43650C standard.

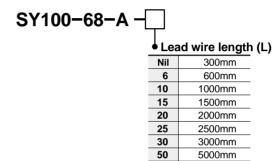
∆Caution

Connector Assembly with Cover

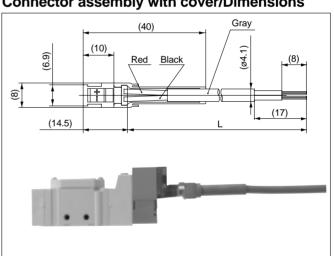
Connector assembly with dust proof protective cover

- Effective for prevention of short circuit failure due to the entry of foreign matter into the connector
- Chloroprene rubber for electrical use, which provides outstanding weather resistance and electrical insulation, is used for the cover material. However, do not allow contact with cutting oil, etc.
- Use of a round type cord creates a neat appearance

Part numbers



Connector assembly with cover/Dimensions



Ordering Examples

Enter the part number for a plug connector solenoid valve without connector together with the part number for a connector assembly with cover.

<Example 1> Lead wire length of 2000mm

SY3120-5LOZ-M5 SY100-68-A-20

<Example 2> Lead wire length of 300mm (standard)

SY3120-5LPZ-M5

Symbol for connector assembly with cover

* In this case, the part number for the connector assembly with cover is not re-





Series SY3000/5000/7000/9000 Specific Product Precautions 4

Be sure to read before handling.
Refer to pages 230 through 233 for safety instructions and common precautions.

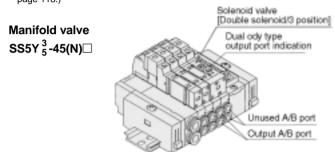
** ⚠** Caution

Plug-in Type

■ When using a double solenoid valve (Dual body type: SY \(^2_3\) 245-□FU) on the plug-in type manifold (SS5Y \(^3_5\)-45 (N)□), two manifold stations are required. Output to A/B ports will be made through the manifold block on the side indicated by an arrow on the top of the solenoid valve. Therefore, arrange the piping on the side indicated by the arrow.

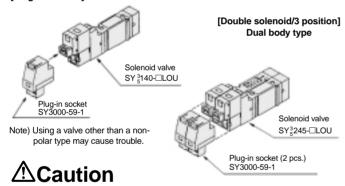
Although the "T" side will not be used, plugs will not be necessary since it is sealed with the valve.

(However, insert a plug into the A/B ports if dust intrusion is possible. Refer to page 118.)



Plug-in type solenoid valves consist of a non-polar solenoid valve and a plug-in socket. When ordering them separately, refer to the following part numbers.

[Single solenoid]



Series SY9000 DIN Rail

The DIN rail used with series SY9000 is stronger than that used with series SY3000 and SY5000. Use this exclusive DIN rail with series SY9000. Furthermore, if using a DIN rail other than that supplied by SMC, refer to the manifold mounting section below, and mount using the same method as prescribed for side facing and rear facing, regardless of the mounting orientation.

Manifold Mounting

For type 23, 43, 45, and 45□ DIN rail mounting, when attaching a manifold to a mounting surface, etc., with bolts, if the entire bottom surface of the DIN rail contacts the mounting surface in a horizontal mounting, it can be used by simply securing both ends of the DIN rail. However, for any other mounting method or for side facing and rear facing, etc., secure the DIN rail with bolts at uniform intervals using the following as a guide: 2 to 5 stations at 2 locations, 6 to 10 stations at 3 locations, 11 to 15 stations at 4 locations, and 16 to 20 stations at 5 locations. In addition, even in the case of a horizontal mounting, if the mounting surface is subject to vibration, etc., take the same measures indicated above. If secured at fewer than the specified number of locations, warping or twisting may occur in the DIN rail and manifold, causing trouble such as air leakage.

△Caution

Precautions for One-touch Fittings

The pitch determined for each of the series SY piping ports (P, A, B, etc.) is based on the assumption that series KJ One-touch fittings will be used. For this reason, other pipe fittings may interfere with each other depending on their type and size. Dimensions should be confirmed in a pipe fitting catalog before they are used.

△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., making a secure installation impossible, and causing problems such as the tube pulling out after installation or air leakage. Allow some extra length in the tube.
- Grasp the tube and push it in slowly, inserting it securely all the way into the fitting.
- 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

- Push in the release button sufficiently, pushing its collar equally around the circumference.
- 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.

ACaution

Precautions on Other Tube Brands

 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 ± 0.1 mm within ± 0.1 mm within ± 0.1 mm within ± 0.1 mm within ± 0.1 5mm within ± 0.2 mm

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.





Series SY3000/5000/7000/9000 Specific Product Precautions 5 Be sure to read before handling. Refer to page 220 through 200 (co.)

Refer to pages 230 through 233 for safety instructions and common precautions.

△Caution

Interface Regulators

Specifications									
Interface regulator model	ARBY3000-□-P-2	ARBY300	00-□- ^{A1} -2	ARBY5000-□-P-2 ARBY5000-		00-□- ^{A1} -2			
Applicable solenoid valve model		SY31 40(R)		SY1 40(R)					
Regulated port		Р	Α	В	Р	Α	В		
Regulating pressure range			0.1 to 0.7MPa						
Maximum operating pressure		0.7MPa							
Fluid		Air							
Ambient and fluid temperature		Maximum 50°C							
Pressure gauge port size		M5 x 0.8							
Weight	With pressure gauge	46g (with 05), 50g (with 06)		66.8g					
vveigni	With plug	20g		60.4g					
Supply side effective area (Cv factor) Note 3)	Supply side effective area (Cv factor) Note 3) P to A, B		2.45mm	n² (0.13)	_	7.61mm	n² (0.42)		
Exhaust side effective area (Cv factor) Note 3) A, B to EA, EB		4.05mm² (0.22)	3.91mm	n² (0.21)	11.1mm² (0.61)	10.1mm	n² (0.56)		

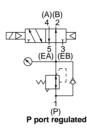
Note 1) Pressurize the interface regulator from P port on the base.

Note 2) With closed center and pressure center valves, the pressure can be regulated through P port only.

Note 3) Effective area, excluding the regulated port, when a primary pressure of 0.5MPa is supplied with regulators mounted on the solenoid valves (2 positions) and sub-plate. Refer to "Flow Characteristics" regarding the regulated port.

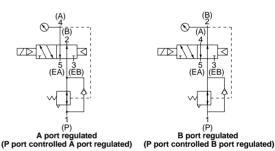
100 (Cv factor) Effective area 50 0.25 Set pressure MPa

Symbols

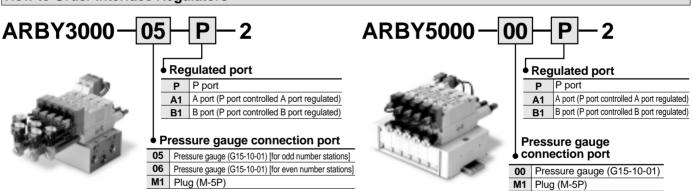


Note 4) Values for weight include gasket and mounting screws

Note 5) With A, B ports regulated (P port controlled A, B ports regulated), the effective area (CV factor) for the regulated port and unregulated passage (P to B or P to A) decreases as shown in the graph below when the set pressure is 0.25MPa or less.



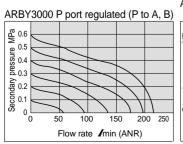
How to Order Interface Regulators

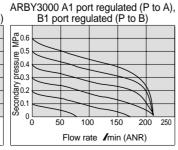


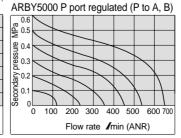
Note) For series ARBY3000 with pressure gauge, note that the part numbers for odd number and even number stations differ to prevent interference between the pressure gauges when installing on the manifold.

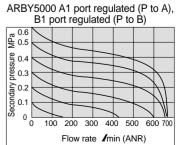
Flow Characteristics

(Conditions: Primary pressure of 0.7MPa with 2 position solenoid valves mounted)







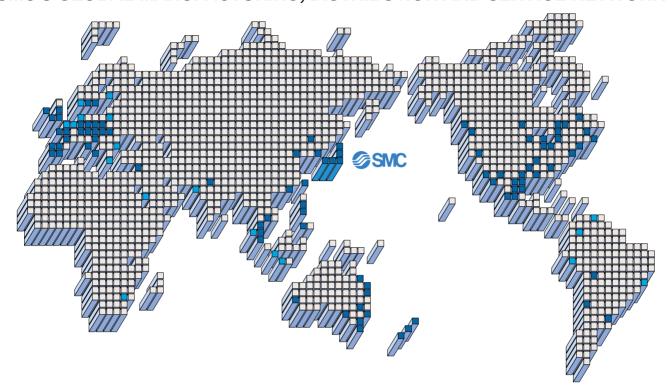


238





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