Series SQ1000
Plug-in Unit

How to Order Manifold

SS5Q13 — 08 | FD2 — D | □

Stations

01	1 station
⋮	⋮
24 Note)	24 stations

Note) The maximum number of stations depends on the type of electrical entries.

Option

Nil	None
02 to 24 (1)	DIN rail length specified
B	Back pressure check valve
K (2)	Special wiring specifications (Except double wiring)
N	With name plate (Side ported only)
R	External pilot specifications
S	Built-in silencer, direct exhaust

Note 1) Specify DIN rail length with "D□" at the end. (Enter the number of stations inside □.) Example: -D08

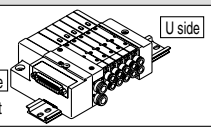
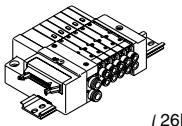
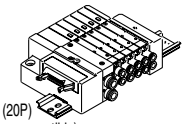
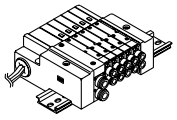
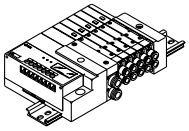
Note 2) Standard wiring specifications are for double wiring. Indicate wiring specifications for single wiring or mixed single and double wiring, or when exceeding the standard maximum number of stations. (Except L kit.)

Note 3) For specifying two or more options, enter them alphabetically. Example: -BKN

Manifold mounting

D	DIN rail mounting style
E	Direct mounting style

Electrical entry

Kit type		Lead wire connector location	Cable specifications	Station	Max. number of stations for special wiring specifications	Max. number of solenoids (2)
F kit  D-sub connector kit	FD0	D side	D-sub connector (25P) kit, without cable	1 to 12 stations	24 stations	24
	FD1		D-sub connector (25P) kit, with 1.5 m cable			
	FD2		D-sub connector (25P) kit, with 3.0 m cable			
	FD3		D-sub connector (25P) kit, with 5.0 m cable			
P kit  Flat ribbon cable connector kit (26P 20P)	PD0	D side (1)	Flat ribbon cable (26P) kit, without cable	1 to 12 stations	24 stations	24
	PD1		Flat ribbon cable (26P) kit, with 1.5 m cable			
	PD2		Flat ribbon cable (26P) kit, with 3.0 m cable			
	PD3		Flat ribbon cable (26P) kit, with 5.0 m cable			
	PDC		Flat ribbon cable (20P) kit, without cable	1 to 9 stations	18 stations	18
J kit  Flat ribbon cable (20P) (PC Wiring System compatible)	JD0	D side	Flat ribbon cable (20P) PC Wiring System compatible	1 to 8 stations	16 stations	16
L kit  Lead wire kit	LD0	D side	Lead wire kit with 0.6 m cable	1 to 12 stations	—	—
	LU0	U side				
	LD1	D side	Lead wire kit, with 1.5 m cable			
	LU1	U side				
	LD2	D side	Lead wire kit, with 3.0 m cable			
	LU2	U side				
S kit  Serial transmission kit	SDF	D side	NKE Corp.: Uni-wire System	1 to 8 stations	16 stations	16
	SDH		NKE Corp.: Uni-wire H System			
	SDJ1		SUNX Corp.: S-LINK System (16 output points)			
	SDJ2		SUNX Corp.: S-LINK System (8 output points)	1 to 4 stations	8 stations	8
	SDQ		DeviceNet, CompoBus/D (OMRON Corp.)	1 to 8 stations	16 stations	16
	SDR1		OMRON Corp.: CompoBus/S System (16 output points)			
	SDR2		OMRON Corp.: CompoBus/S System (8 output points)	1 to 4 stations	8 stations	8
	SDV		Mitsubishi Electric Corp.: CC-LINK System	1 to 8 stations	16 stations	16

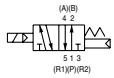
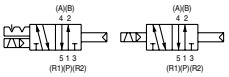
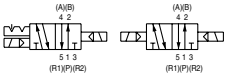
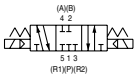
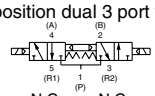
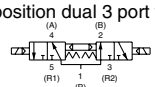
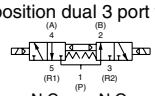
Note 1) Separately order the 20P type cable assembly for the P kit.

Note 2) The maximum number of stations should not be more than the maximum number of solenoids. (The number of solenoids are counted as: 1 for single solenoids and 2 for type 3P and 4P double solenoids.)

How to Order Valves

SQ1 [1] 3 [0] [ ] — [5] [ ] — [C6] [ ] — [ ]

Type of actuation

1	2 position single 
2	2 position double (Latching)  Metal seal / Rubber seal
	2 position double (Double solenoid) (1)  Metal seal / Rubber seal
3	3 position closed center 
4	3 position exhaust center 
5	3 position pressure center 
A (2)	4 position dual 3 port valve  N.C. N.C.
B (2)	4 position dual 3 port valve  N.O. N.O.
C (2)	4 position dual 3 port valve  N.C. N.O.

Note 1) For double solenoid specification, the function symbol below is "D".
Note 2) Only rubber seal types are applicable.

Seal

0	Metal seal
1	Rubber seal

Function

Nil	Standard type (1.0 W DC)
D	2 position double (Double solenoid specifications)
K (1)	High pressure type (1.0 MPa, 1.0 W DC) [Applicable to metal seal only]
N	Negative COM
Y (1)	Low wattage type (0.5 W DC)
R (2)	External pilot specifications

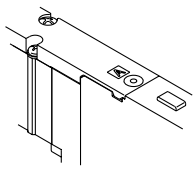
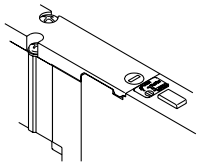
Note 1) Except double (latching) type.
Note 2) Except dual 3 port valves.
Note 3) When two or more symbols are specified, indicate them alphabetically.

Coil voltage

5	24 VDC
6	12 VDC

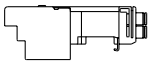
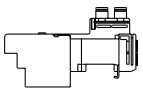
Note) Light/Surge voltage suppressor is built-in.

Manual override

Nil	**B** Note)
Non-locking push type (Tool required)	Locking type (Tool required)
	

Note) Except double (latching) type.

Cylinder port

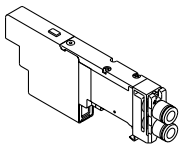
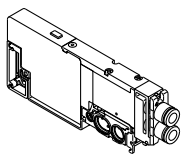
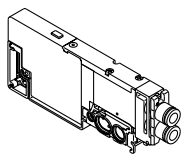
C3	One-touch fitting for ø3.2	Side ported	
C4	One-touch fitting for ø4		
C6	One-touch fitting for ø6		
M5	M5 thread		
L3	One-touch fitting for ø3.2	Note) Top ported	
L4	One-touch fitting for ø4		
L6	One-touch fitting for ø6		
L5	M5 thread		

Note) Can be changed to side ported configuration.

Port plug mounting port

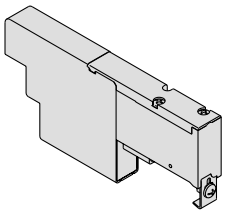
Nil	None
A	Port 4(A)
B	Port 2(B)

With/Without manifold block

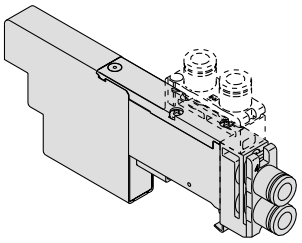
Nil	**M**	**MB**
Without manifold block	With manifold block	With manifold block, built-in back pressure check valve
	 ∗ Lead wire is not included.	 ∗ Lead wire is not included.
• When ordering with manifolds • When only valves are required.	For adding stations	

Manifold Option

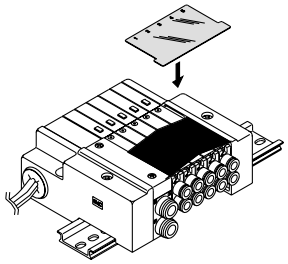
Blanking plate P. 2-3-44
SSQ1000-10A-3



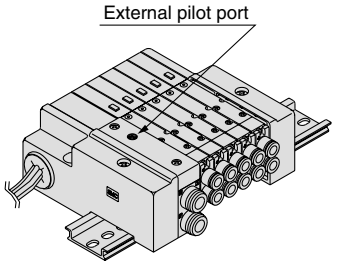
Individual SUP/EXH spacer P. 2-3-45
SSQ1000-PR1-3- C6 / L6



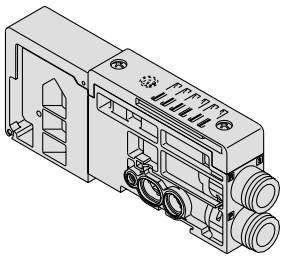
Name plate (-N) P. 2-3-47
SSQ1000-N3-n



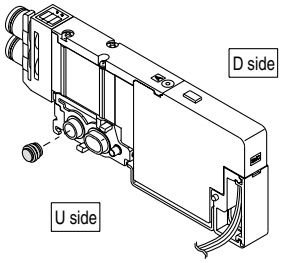
External pilot specifications (-R) P. 2-3-48



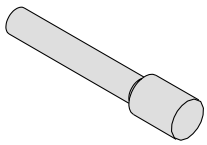
SUP/EXH block P. 2-3-44
SSQ1000-PR-3-C8 (-S)



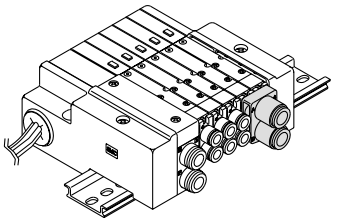
SUP block plate P. 2-3-46
SSQ1000-B-P



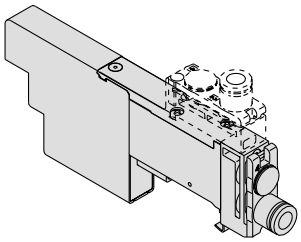
Blanking plug P. 2-3-47
KQ2P-23/04/06/08



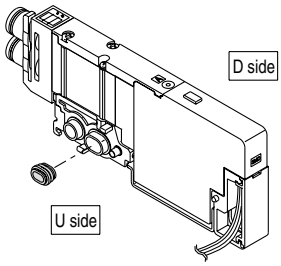
Dual flow fitting P. 2-3-48
SSQ1000-52A- C8 / N9



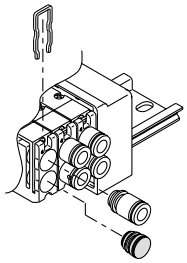
Individual SUP spacer P. 2-3-44
SSQ1000-P-3- C6 / L6



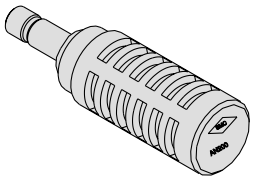
EXH block plate P. 2-3-46
SSQ1000-B-R



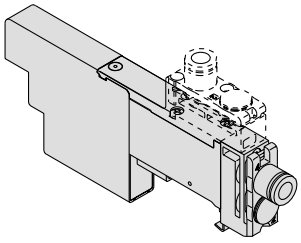
Port plug P. 2-3-47
VVQZ100-CP



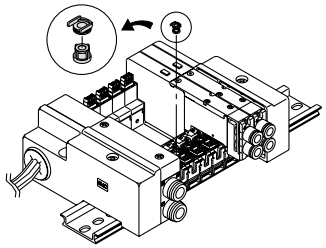
Silencer (For EXH port) P. 2-3-48



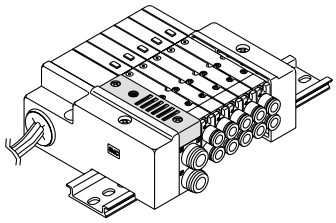
Individual EXH spacer P. 2-3-45
SSQ1000-R-3- C6 / L6



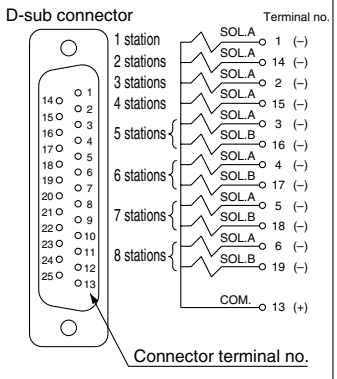
Back pressure check valve (-B) P. 2-3-46
SSQ1000-BP



Built-in silencer (-S) P. 2-3-47



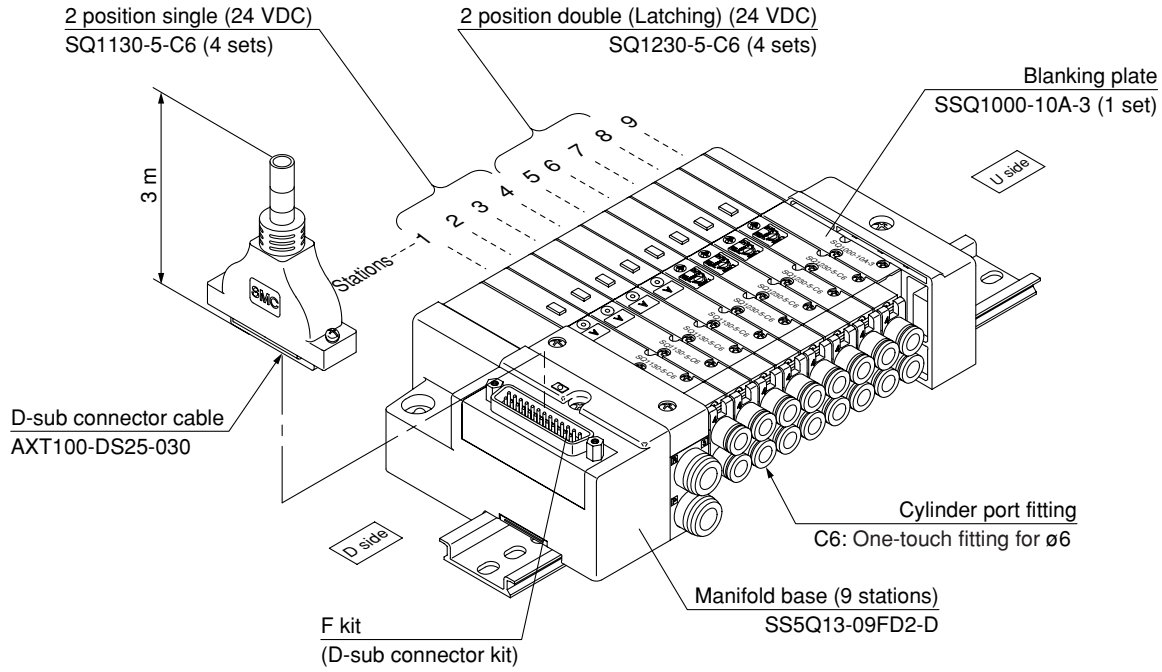
Special wiring specifications (-K) P. 2-3-49



Although the standard products come with double wiring, mixed single and double wiring is available upon request.

How to Order Manifold Assembly (Example)

Example: D-sub connector kit, with cable (3 m)



SS5Q13-09FD2-D ····· 1 set (F kit 9 station manifold base)
∗SQ1130-5-C6 ····· 4 sets (2 position single)
∗SQ1230-5-C6 ····· 4 sets (2 position double [latching])
∗SSQ1000-10A-3 ····· 1 set (Blanking plate)

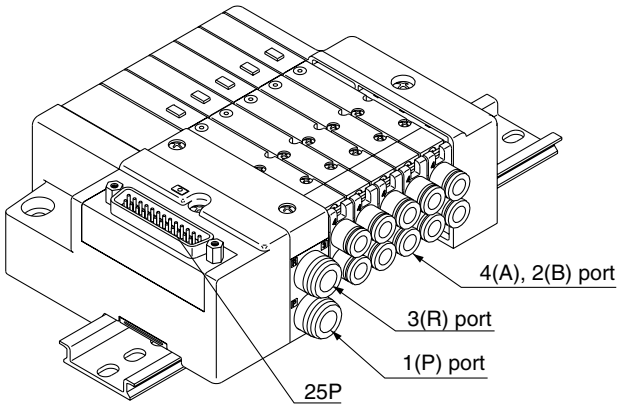
→ The asterisk denotes the symbol for assembly. Prefix it to the part nos. of the solenoid valve, etc.

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 the manifold specification sheet.

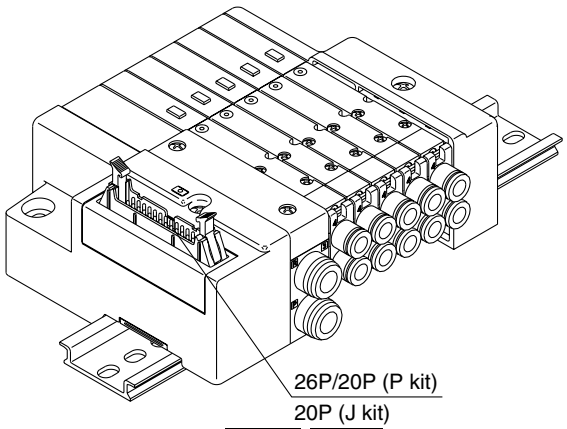
Manifold Specifications

Base model	Porting specifications: Port size (1) 1(P), 3(R)	Porting specifications: Port size (1) 4(A), 2(B) Port location	Porting specifications: Port size (1) 4(A), 2(B) Port size	Applicable solenoid valve	Type of connection		Applicable station (3)	5 station weight (g) (4)	1 station weight (g) (4)
SS5Q13-□□-□	C8 (For ø8) Option Built-in silencer, direct exhaust	Side	C3 (For ø3.2) C4 (For ø4) C6 (For ø6) M5 (M5 thread)	SQ1□30 SQ1□31	F kit: D-sub connector		1 to 12 stations	420	20
					P kit: Flat ribbon cable	26P	1 to 12 stations	420	20
						20P	1 to 9 stations		
		Top (2)	L3 (For ø3.2) L4 (For ø4) L6 (For ø6) L5 (M5 thread)		J kit: Flat ribbon cable PC Wiring System compatible		1 to 8 stations	420	20
					L kit: Lead wire		1 to 12 stations	460	35
					S kit: Serial transmission		1 to 8 stations	475	20

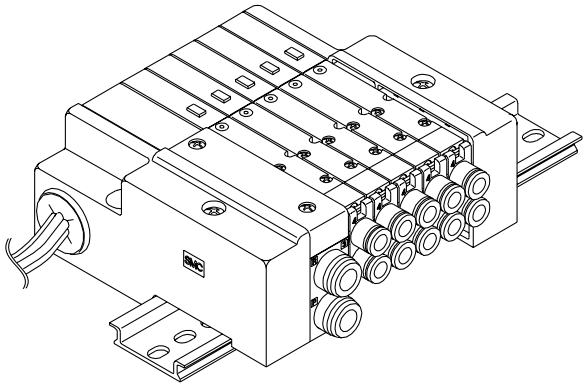
Note 1) One-touch fittings in inch sizes are also available. For details, refer to page 2-3-56.
Note 2) Can be changed to side ported configuration.
Note 3) An optional specification for special wiring is available to increase the maximum number of stations. Refer to page 2-3-54 for details.
Note 4) Except valves. For valve weight, refer to page 2-3-10.



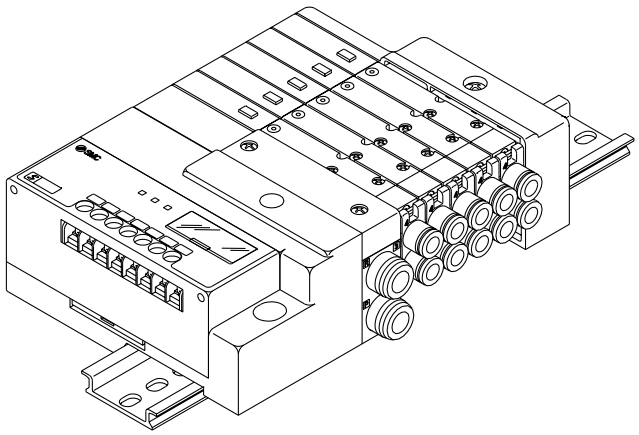
F kit



P kit **J kit**

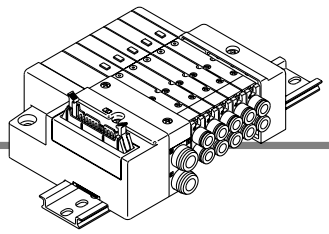


L kit



S kit

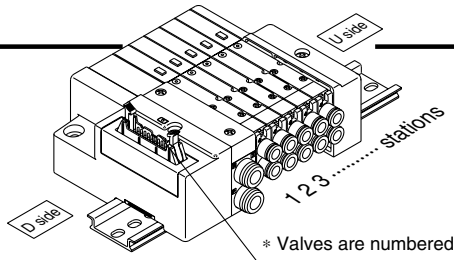
J Kit (PC Wiring System compatible flat ribbon cable kit)



- **PC Wiring System compatible.**
- **Using connector for flat ribbon cable (20P) conforming to MIL standard permits the use of connectors put on the market and gives a wide interchangeability.**
- **Top or side entry for the connector can be changed freely, allowing later changes according to the mounting space.**

Manifold Specifications

Series	Porting specifications			Maximum number of stations
	Port location	Port size		
		1(P), 3(R)	4(A), 2(B)	
SQ1000	Side, Top	C8	C3, C4, C6, M5	8 stations (16 as an option)

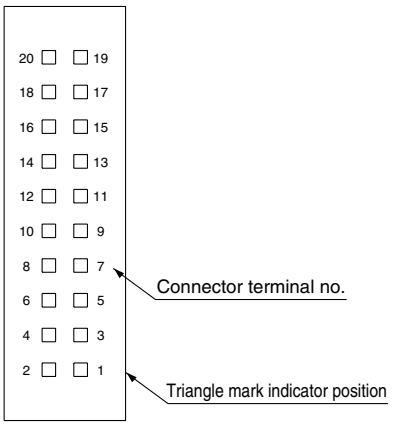


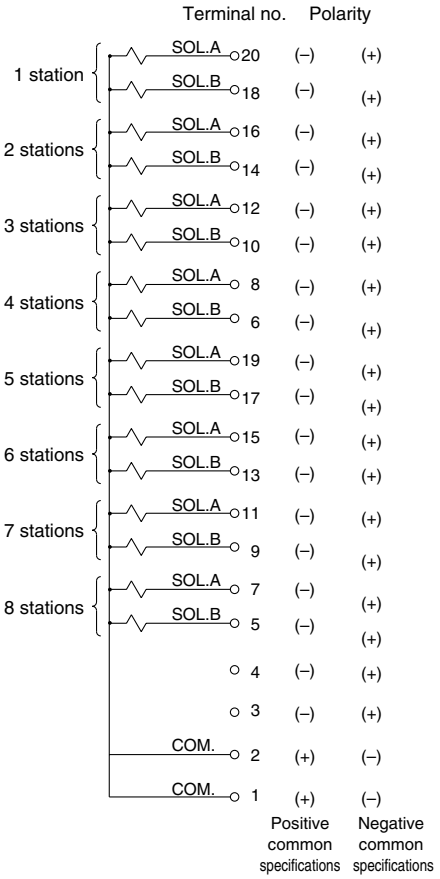
∗ Valves are numbered from the D side.

Electrical wiring specifications ●

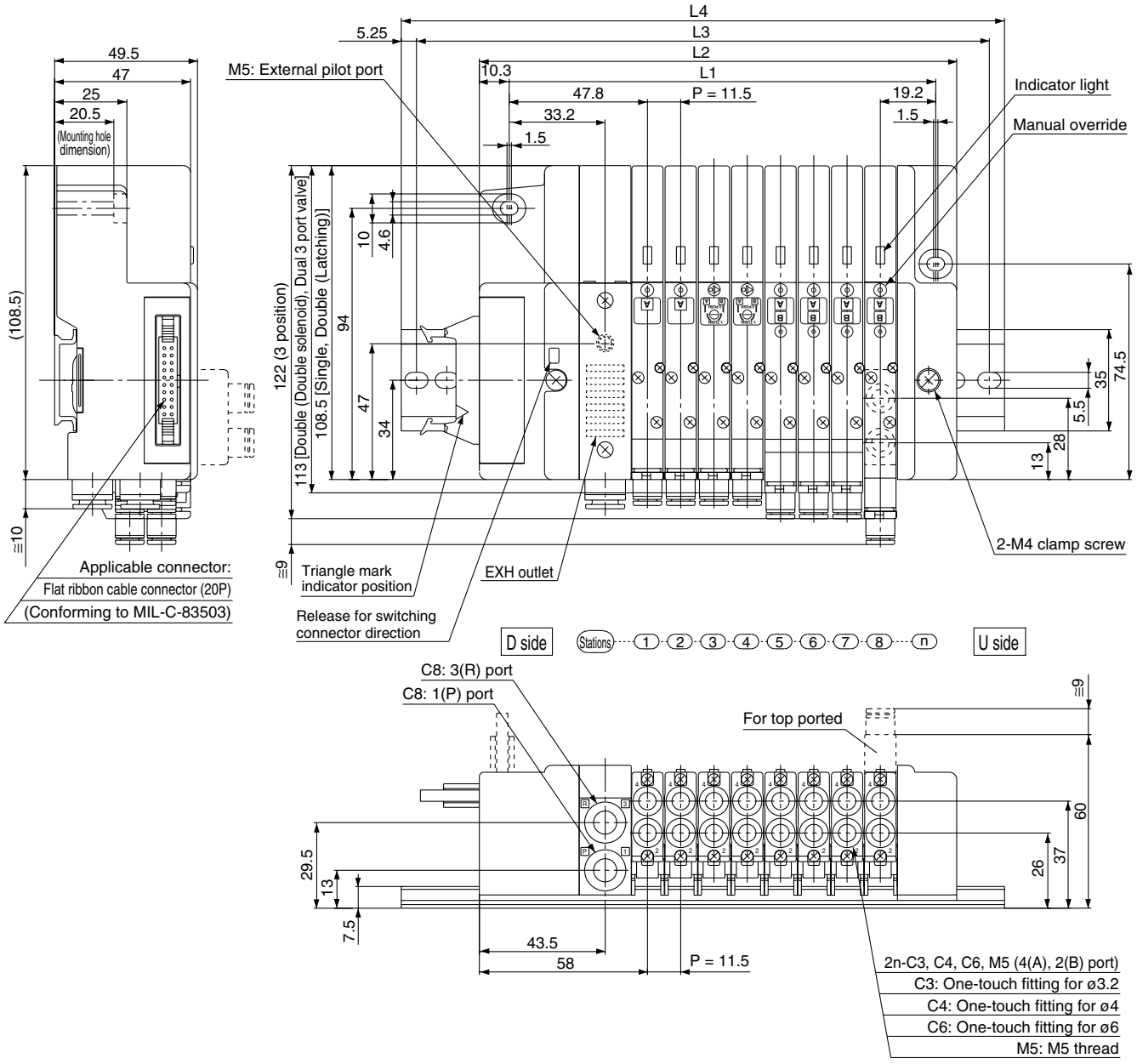
Double wiring (connected to SOL. A and SOL. B) is adopted for the internal wiring of each station, regardless of valve and option types.
Mixed single and double wiring is available as an option.
For details, refer to page 2-3-54.

Flat ribbon cable connector





Note) When using the negative common specifications, use valves for negative common.
For details about the PC Wiring System, refer to catalog CAT.ES02-20 separately.



Dimensions

Formula: L1 = 11.5n + 55.5, L2 = 11.5n + 73 n: Stations (Maximum 16 stations)

L \ n	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	67	78.5	90	101.5	113	124.5	136	147.5	159	170.5	182	193.5	205	216.5	228	239.5
L2	84.5	96	107.5	119	130.5	142	153.5	165	176.5	188	199.5	211	222.5	234	245.5	257
L3	112.5	125	137.5	150	150	162.5	175	187.5	200	212.5	225	237.5	250	262.5	275	287.5
L4	123	135.5	148	160.5	160.5	173	185.5	198	210.5	223	235.5	248	260.5	273	285.5	298