

5 Port Solenoid Valve

Series SZ3000

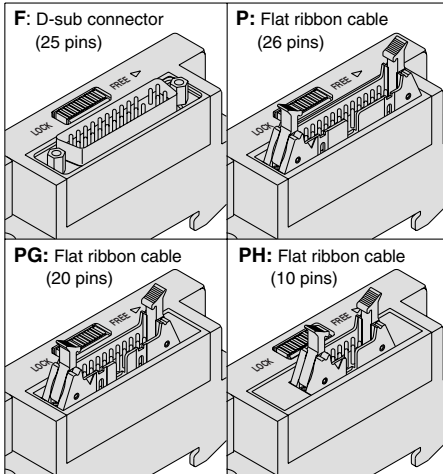
Plug-in Type

How to Order

● Plug-in manifold with power supply terminals

SS5Z3-60 **F** **D** **1** **05** **U** **□** **□** **P** **□**

● Connector type



SUP/EXH block mounting position ●

U	U side (2 to 10 stations)
D	D side (2 to 10 stations)
B	Both sides (2 to 20 stations)
M*	Special specifications

* For special specifications, indicate separately by the manifold specification sheet.

Note) A total of up to 3 SUP/EXH blocks can be mounted. Please contact SMC if 4 or more will be mounted.

Pilot type ●

Nil	Internal pilot
R	External pilot

● Option

When a longer DIN rail is desired than the specified stations, specify the station number to be required.

● Power supply terminals

Symbol	Specifications
P	24 VDC, Positive common
P12	12 VDC, Positive common
N	24 VDC, Negative common
N12	12 VDC, Negative common

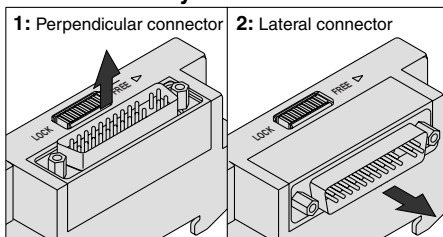
● SUP/EXH block fitting specifications

Nil	Straight
L	Elbow fittings (Upward)
B	Elbow fittings (Downward)

Connector mounting position ●

Symbol	Mounting position
D	D side

Connector entry direction ●



● Valve stations

F: D-sub connector

Symbol	Stations	Note
02	2 stations	Double wiring specifications ⁽¹⁾
10	10 stations	
02	2 stations	Specified layout ⁽²⁾ (Up to 21 solenoids possible)
20	20 stations	

P: Flat ribbon cable connector (26 pins)

Symbol	Stations	Note
02	2 stations	Double wiring specifications
11	11 stations	
02	2 stations	Specified layout (Up to 22 solenoids possible)
20	20 stations	

PG: Flat ribbon cable connector (20 pins)

Symbol	Stations	Note
02	2 stations	Double wiring specifications
08	8 stations	
02	2 stations	Specified layout (Up to 16 solenoids possible)
16	16 stations	

PH: Flat ribbon cable connector (10 pins)

Symbol	Stations	Note
02	2 stations	Double wiring specifications
04	4 stations	
02	2 stations	Specified layout (Up to 8 solenoids possible)
08	8 stations	

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

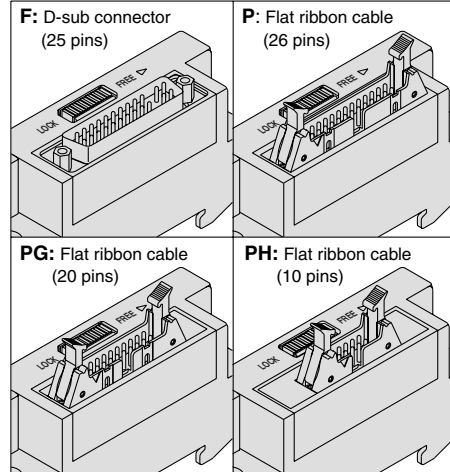
Note 2) Specified layout: Indicate wiring specifications on a manifold specification sheet. (Please note that in locations where single solenoid wiring is indicated, it will be impossible to use double or 3 position/4 position valves.)

How to Order

● Plug-in manifold without power supply terminals

SS5Z3-60 **F** **D** **1** - **05** **U**

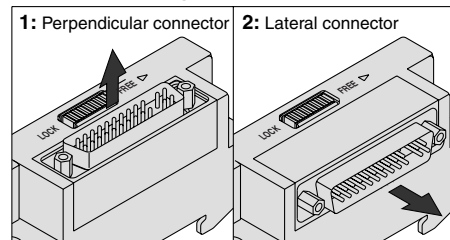
● Connector type



● Connector mounting position

Symbol	Mounting position
D	D side

● Connector entry direction



● SUP/EXH block mounting position

U	U side (2 to 10 stations)
D	D side (2 to 10 stations)
B	Both sides (2 to 20 stations)
M*	Special specifications



* For special specifications, indicate separately by the manifold specification sheet.
Note) A total of up to 3 SUP/EXH blocks can be mounted. Please contact SMC if 4 or more will be mounted.

● Option

When a longer DIN rail is desired than the specified stations, specify the station number to be required.

● SUP/EXH block fitting specifications

Nil	Straight
L	Elbow fittings (Upward)
B	Elbow fittings (Downward)

● Pilot type

Nil	Internal pilot
R	External pilot

SV

SZ

SY

SYJ

SX

● Valve stations

F: D-sub connector

Symbol	Stations	Note
02	2 stations	
⋮	⋮	
12	12 stations	Double wiring specifications ⁽¹⁾
⋮	⋮	Specified layout ⁽²⁾ (Up to 24 solenoids possible)
02	2 stations	
⋮	⋮	
20	20 stations	

P: Flat ribbon cable connector (26 pins)

Symbol	Stations	Note
02	2 stations	
⋮	⋮	
12	12 stations	Double wiring specifications
⋮	⋮	Specified layout (Up to 25 solenoids possible)
02	2 stations	
⋮	⋮	
20	20 stations	

PG: Flat ribbon cable connector (20 pins)

Symbol	Stations	Note
02	2 stations	
⋮	⋮	
09	9 stations	Specified layout (Up to 19 solenoids possible)
02	2 stations	
⋮	⋮	
19	19 stations	

PH: Flat ribbon cable connector (10 pins)

Symbol	Stations	Note
02	2 stations	
⋮	⋮	
04	4 stations	Specified layout (Up to 9 solenoids possible)
02	2 stations	
⋮	⋮	
09	9 stations	



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

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

Cassette Type Manifold Plug-in Type Series SZ3000

How to Order Valve Manifold Assembly

Ordering example (SZ3000, positive common with power supply terminals)

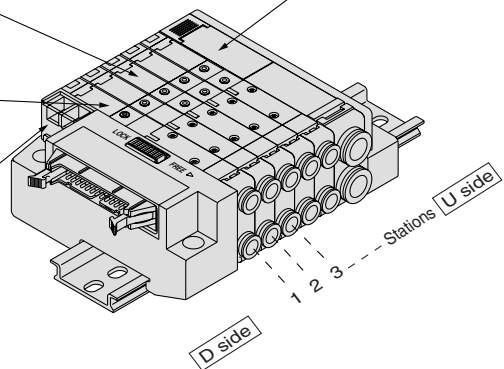


Double solenoid (24 VDC)
SZ3260-5LOZ-C6 (3 sets)

Single solenoid (24 VDC)
SZ3160-5LOZ-C6 (2 sets)

With power supply terminals
Plug-in manifold
SS5Z3-60PD2-05U-P

SUP/EXH block (U side mounting)



SS5Z3-60PD2-05U-P..... 1 set (Manifold part number)
*SZ3160-5LOZ-C6 2 sets (Single solenoid part no.)
*SZ3260-5LOZ-C6 3 sets (Double solenoid part no.)
↳ The asterisk denotes the symbol for assembly. Prefix it to the part nos. of the solenoid valve, etc.

Stations are counted from D side as the 1st one. Indicate the valves to be attached below the manifold part number, in order starting from station 1 as shown in the drawing. When entry of part numbers becomes complicated, indicate on the manifold specification sheet.



Made to Order Specifications
(For details, refer to page 1-3-38.)

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Manifold Specifications

Model	D-sub connector Type 60F	Flat ribbon cable type 60P□		
		Type 60P	Type 60PG	Type 60PH
Manifold	Plug-in type			
1 (P: SUP), 3/5 (R: EXH) system	Common SUP, EXH			
Valve stations (With power terminal)	2 to 20 stations	2 to 16 stations	2 to 8 stations	
Applicable connector	D-sub connector Conforming to MIL-C-24308 JIS-X-5101	Flat ribbon cable connector Socket: 26 pins MIL type with strain relief Conforming to MIL-C-83503	Flat ribbon cable connector Socket: 20 pins MIL type with strain relief Conforming to MIL-C-83503	Flat ribbon cable connector Socket: 10 pins MIL type with strain relief Conforming to MIL-C-83503
Internal wiring	+ COM, -COM			
4 (A), 2 (B) port Porting specification	Location	Valve		
	Direction	Lateral, Upward, Downward		
Port size	1 (P), 3/5 (R) port	C8		
	4 (A), 2 (B) port	C4, C6, M5		
Weight W (g) ⁽²⁾ (n1: Stations n2: Number of SUP/EXH blocks m: Weight of DIN rail)	$W = 3.2n_1 + 53n_2 + m + 126.5$			



Note 1) In cases such as those where many valves are operated simultaneously, use type B (double side SUP/EXH), applying pressure to the 1(P) ports on both sides and exhausting from the 3(R) ports on both sides.

Note 2) The weight W is the value for the D-sub connector manifold with power supply terminals only. To obtain the weight with solenoid valves attached, add the solenoid valve weights given on page 1-3-10 for the appropriate number of stations. For DIN rail weight, refer to page 1-3-12.

Flow Characteristics

Port size		Flow characteristics					
1, 5, 3 (P, EA, EB)	4, 2 (A, B)	1 → 2/4 (P → A/B)			4/2 → 3 (A/B → R)		
		C [dm ³ /(s·bar)]	b	Cv	C [dm ³ /(s·bar)]	b	Cv
C8	C4	0.58 [0.49]	0.26 [0.36]	0.14 [0.13]	0.76 [0.65]	0.15 [0.20]	0.18 [0.15]
	C6	0.73 [0.64]	0.24 [0.27]	0.18 [0.16]	0.77 [0.74]	0.19 [0.16]	0.19 [0.19]
	M5	0.60 [0.57]	0.38 [0.35]	0.17 [0.15]	0.67 [0.58]	0.16 [0.39]	0.16 [0.16]

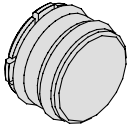


Note) • The value is for manifold base with 5 stations and individually operated 2 position type.
• Values inside [] are for 4 position dual 3 port valves.

Manifold Option

■ SUP block disk

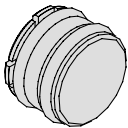
By installing a SUP block disk in the pressure supply passage of a manifold valve, it is possible to supply two or more different high and low pressures to one manifold. (Use in combination with a pilot port block disk.)



Series	Part no.
SZ3000	SZ3000-114-4A

■ EXH block disk

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



Series	Part no.
SZ3000	SZ3000-114-4A

■ Pilot port block disk

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



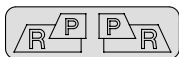
Series	Part no.
SZ3000	SZ3000-114-2A

■ Label for block disk

The labels shown below are used on manifold stations containing SUP/EXH block disk(s) to show their location. (3 pcs. each)

SZ3000-155-1A

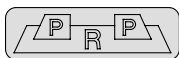
Label for SUP/EXH block disk



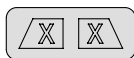
Label for EXH block disk



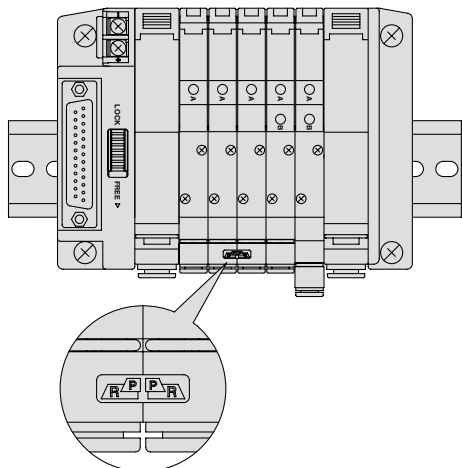
Label for SUP block disk



Label for pilot port block disk



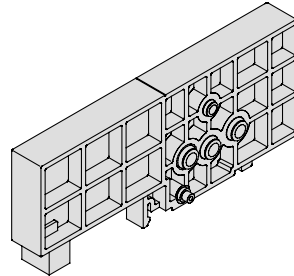
* When a block disk is concurrently ordered by specifying on the manifold specification sheet, etc., a label will be stuck on the position where block disk is mounted.



■ Blanking block assembly

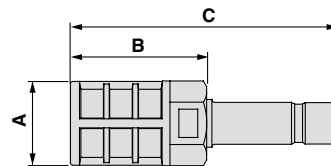
SZ3000-55-1A

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



■ Silencer with One-touch fitting

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

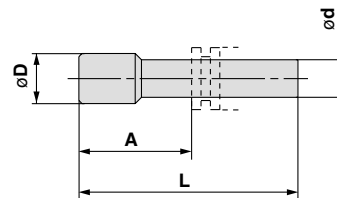


For Series	Model	Effective area	A	B	C
SZ3000 (ø8)	AN203-KM8	14 mm ²	ø16	26	51

■ Plug (White)

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

Purchasing order is available in units of 10 pieces.



Dimensions

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

SV

SZ

SY

SYJ

SX

Series SZ3000

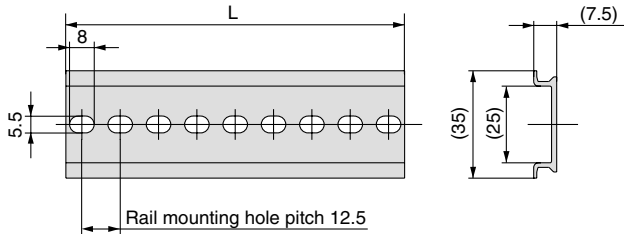
Manifold Option

■ DIN rail dimensions/Weight

VZ1000-11-1-□

• Refer to the L dimension tables

* Enter a number from the DIN rail dimension table below.



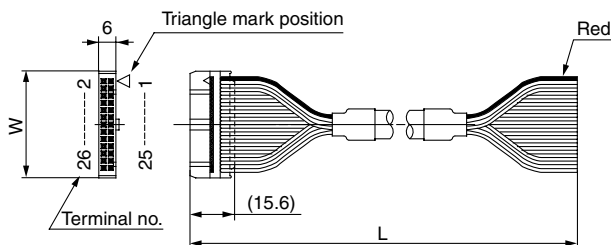
No.	0	1	2	3	4	5	6	7	8	9
L dimension	98	110.5	123	135.5	148	160.5	173	185.5	198	210.5
Weight (g)	17.6	19.9	22.1	24.4	26.6	28.9	31.1	33.4	35.6	37.9

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

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

■ Flat ribbon cable type/Cable assembly

AXT100-FC□-¹/_{to}³



Flat Ribbon Cable Assembly

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

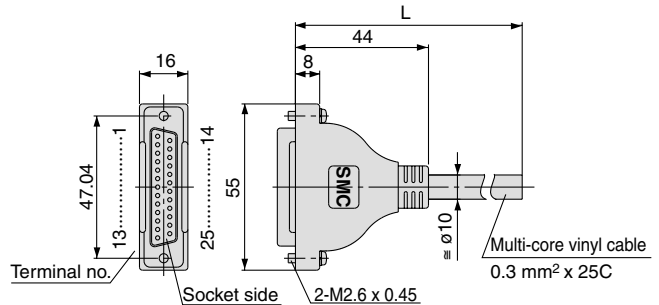
* For other commercial connectors, use a type with strain relief conforming to MIL-C-83503.

Connector manufacturers' example

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

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

AXT100-DS25-⁰¹⁵/₀₃₀/₀₅₀



D-sub Connector Cable Assembly Terminal No.

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

D-sub Connector Cable Assembly

Cable length (L)	Assmly part no.	Note
1.5 m	AXT100-DS25-015	Cable 25 cores x 24AWG
3 m	AXT100-DS25-030	
5 m	AXT100-DS25-050	

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

Connector manufacturers' example

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

Electric Characteristics

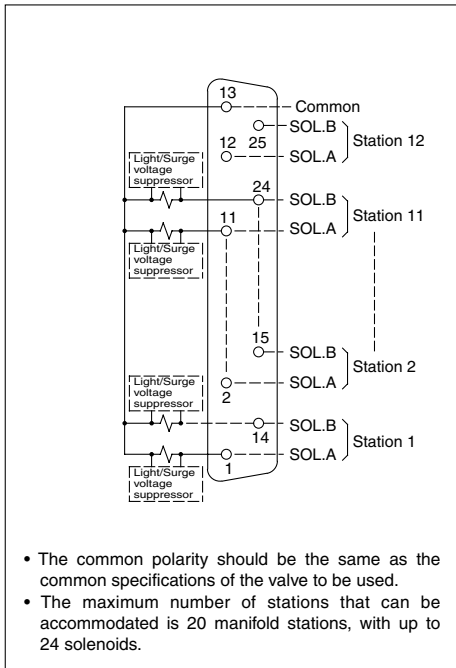
Item	Characteristics
Conductor resistance Ω /km, 20°C	65 or less
Voltage limit VAC, 1 min.	1000
Insulation resistance M Ω km, 20°C	5 or less

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

Manifold Electrical Wiring

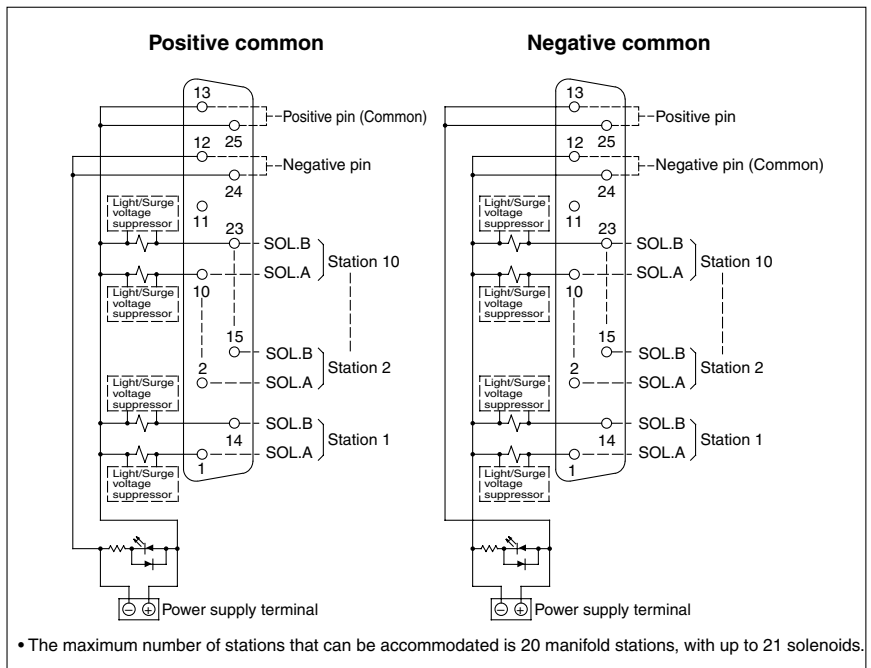
Type 60F D-sub Connector Type (25 pins)

● Without Power Supply Terminal



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

● With Power Supply Terminal



- The maximum number of stations that can be accommodated is 20 manifold stations, with up to 21 solenoids.

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

SV

SZ

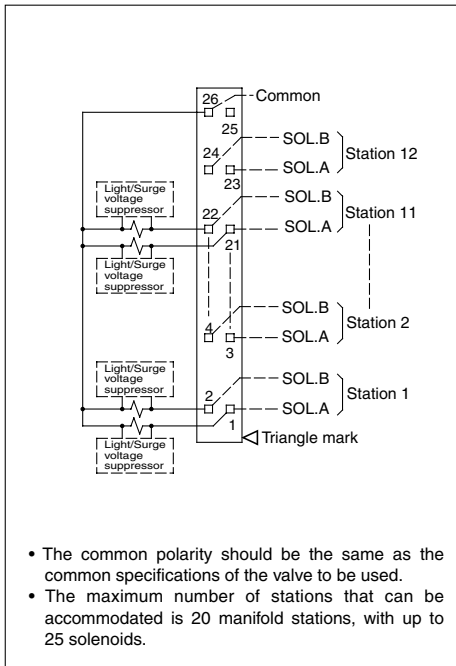
SY

SYJ

SX

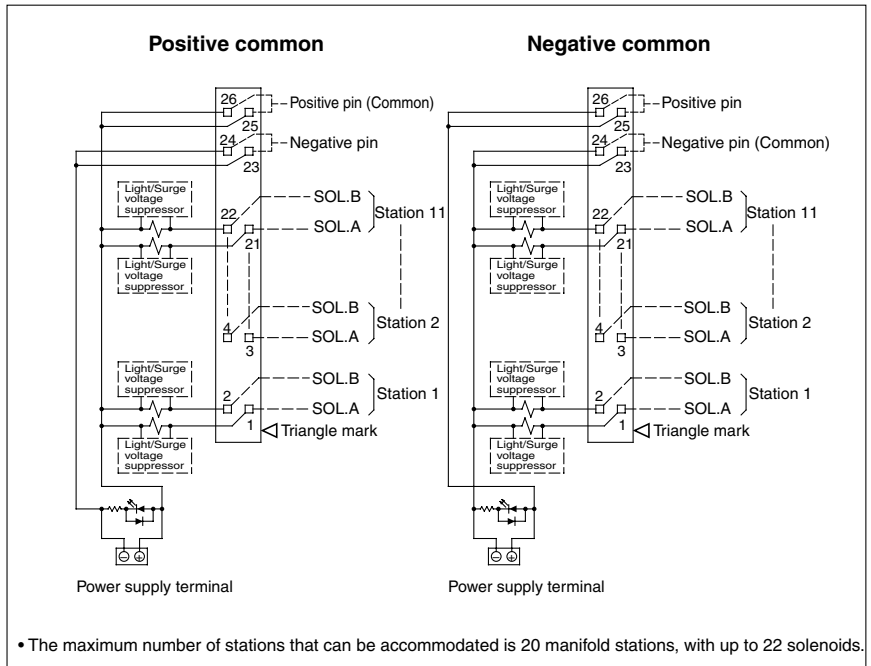
Type 60P Flat Ribbon Cable Type (26 pins)

● Without Power Supply Terminal



- The common polarity should be the same as the common specifications of the valve to be used.
- The maximum number of stations that can be accommodated is 20 manifold stations, with up to 25 solenoids.

● With Power Supply Terminal



- The maximum number of stations that can be accommodated is 20 manifold stations, with up to 22 solenoids.

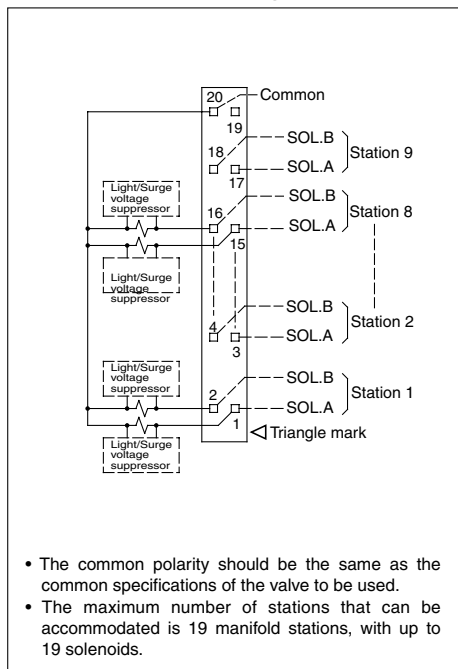
- The circuits above are for the double wiring specifications with up to 11 or 12 stations. Connect to SOL.A in the case of a single solenoid. Moreover, when wiring instructions are given on a manifold specification sheet, the "A" signal for single and the "A, B" signals for double should be wired in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

Series SZ3000

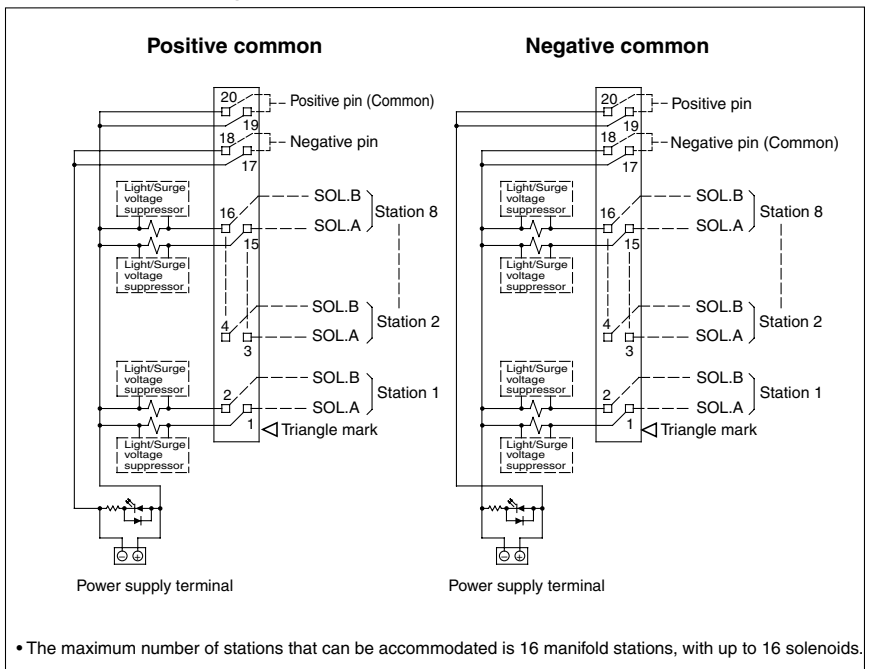
Manifold Electrical Wiring

Type 60PG Flat Ribbon Cable Type (20 pins)

● Without Power Supply Terminal



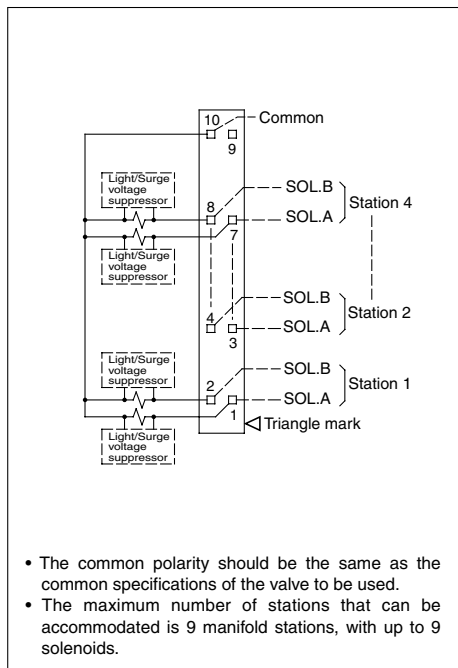
● With Power Supply Terminal



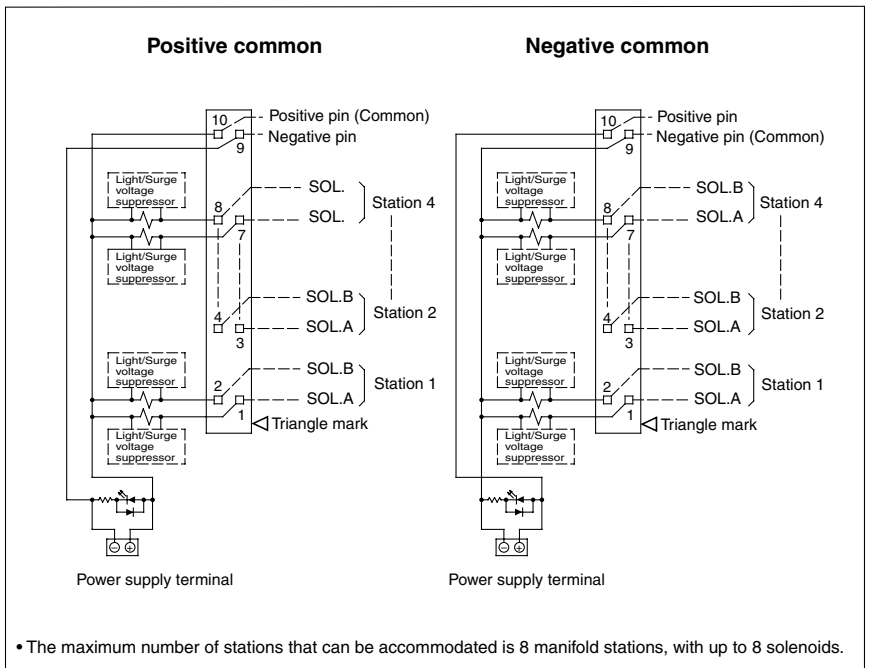
- The circuits above are for the double wiring specifications with up to 8 or 9 stations. Connect to SOL.A in the case of a single solenoid. Moreover, when wiring instructions are given on a manifold specification sheet, the "A" signal for single and the "A, B" signals for double should be wired in order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

Type 60PH Flat Ribbon Cable Type (10 pins)

● Without Power Supply Terminal



● With Power Supply Terminal

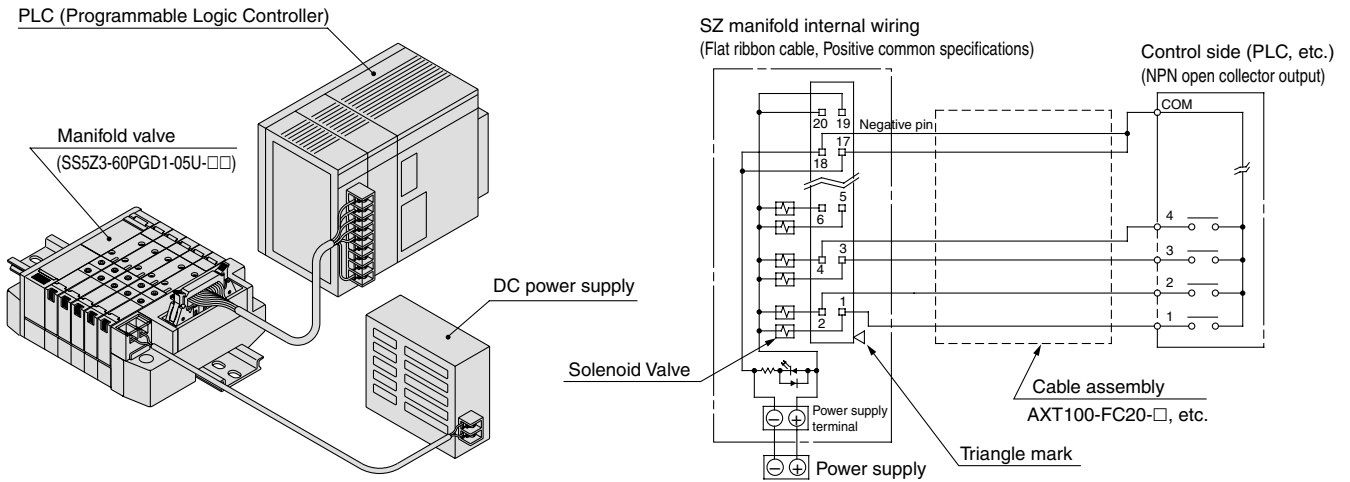


- The circuits above are for the double wiring specifications with up to 4 stations. Connect to SOL.A in the case of a single solenoid. Moreover, when wiring instructions are given on a manifold specification sheet, the "A" signal for single and the "A, B" signals for double should be wired in order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

Wiring of Plug-in Type Manifold with Power Supply Terminal (Example)

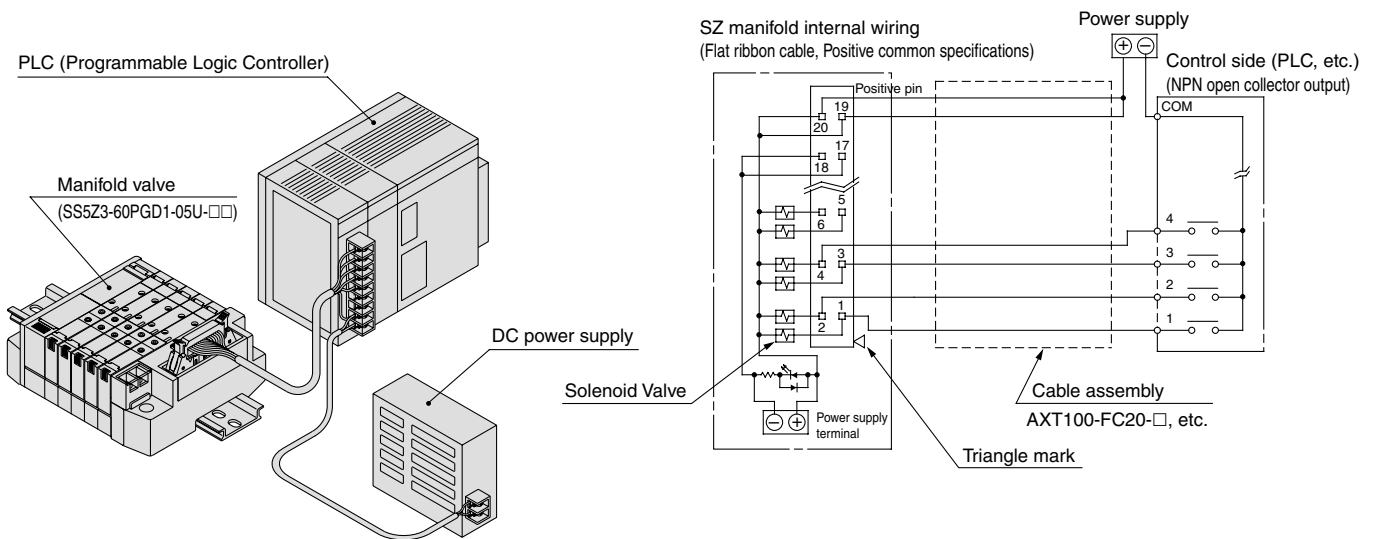
- Since the power supply to drive valves with power supply terminals can be supplied from either the control side or the manifold side, these wiring examples should be used for reference when wiring is performed.

1. Wiring example when using manifold power supply terminal



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



⚠ Caution

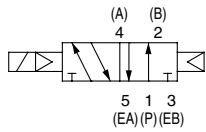
- Single wire, COM position, etc. of PLC are different from each manufacturer. When connecting with PLC, read the specifications carefully and understand the electrical circuit. Poor wiring could cause damage to PLC, power source, etc. as well as manifold and valve.

Series SZ3000

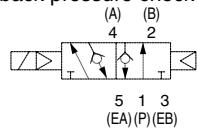
Construction

JIS Symbol

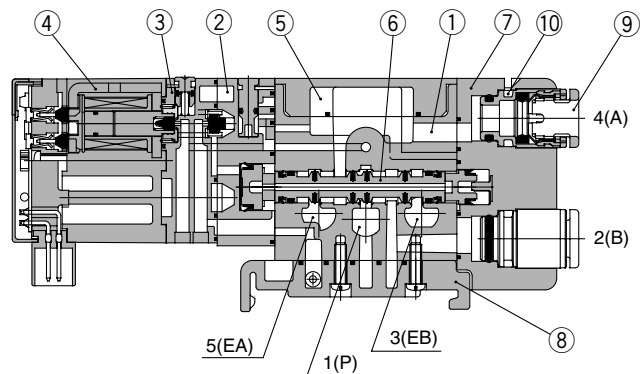
2 position single



2 position single with back pressure check valve

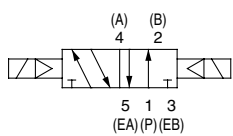


2 position single

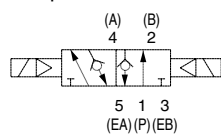


JIS Symbol

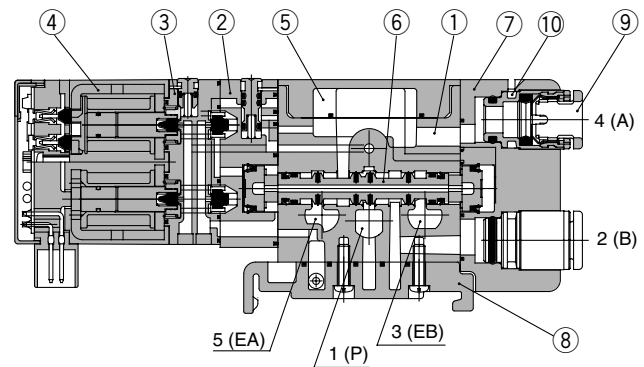
2 position double



2 position double with back pressure check valve

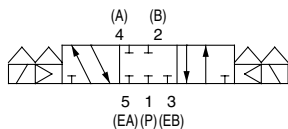


2 position double

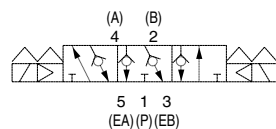


JIS Symbol

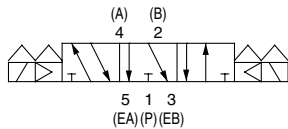
3 position closed center



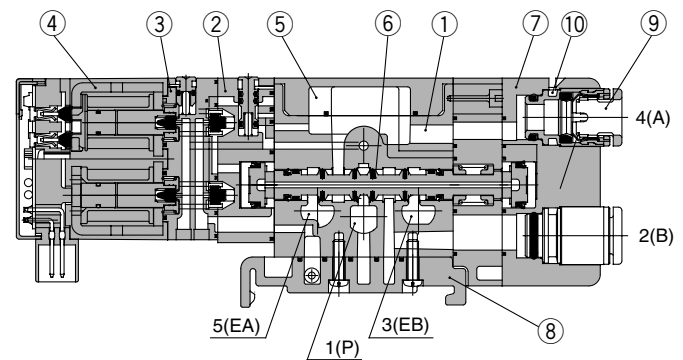
3 position exhaust center with back pressure check valve



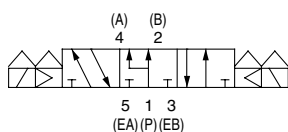
3 position exhaust center



3 position closed center/exhaust center/pressure center



3 position pressure center



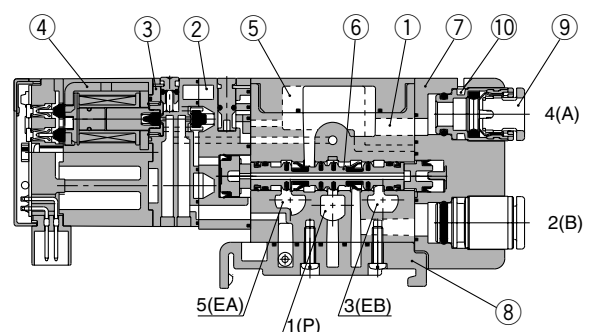
Component Parts

No.	Description	Material	Note
①	Body	Zinc die-casted	—
②	Adapter plate	Resin	Urban white
③	Pilot body	Resin	Urban white
④	Molded coil	—	Urban gray
⑤	Body cover	Resin	Urban white
⑥	Spool valve assembly	Aluminum/HNBR	—
⑦	Port block	Resin	Urban white
⑧	Bottom cover assembly	—	Urban white

Replacement Parts

No.	Description	Part no.
⑨	One-touch fitting	Refer to One-touch fitting part number information on page 1-3-5.
⑩	Clip	SX3000-115-2

2 position single with back pressure check valve

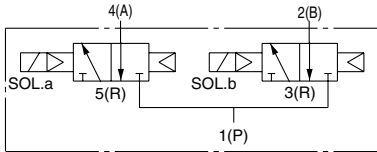


Cassette Type Manifold Plug-in Type Series SZ3000

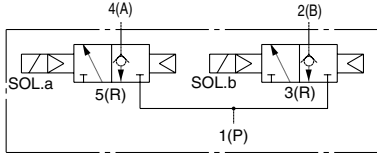
JIS Symbol

4 position dual 3 port valve

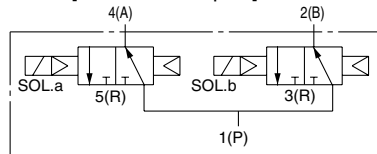
SZ3A60 [N.C. valve x 2 pcs.]



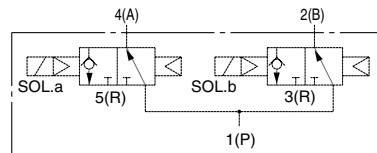
SZ3A60K/With back pressure check valve



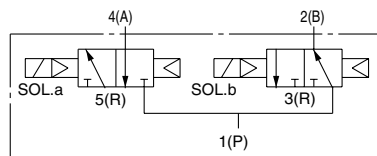
SZ3B60 [N.C. valve x 2 pcs.]



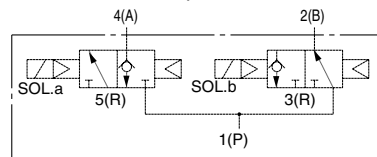
SZ3B60K/With back pressure check valve



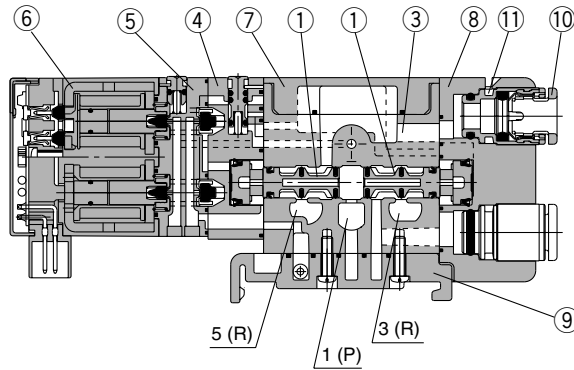
SZ3C60 [N.C. valve, N.O. valve 1 pc. each]



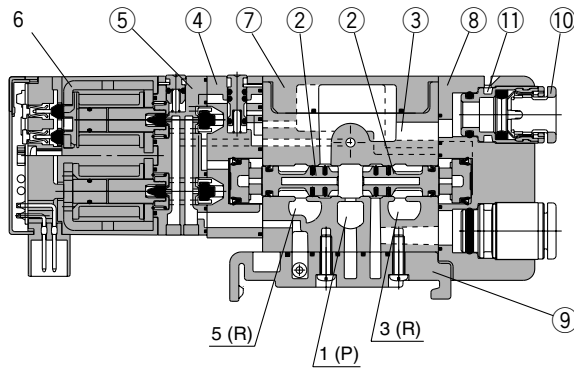
SZ3C60K/With back pressure check valve



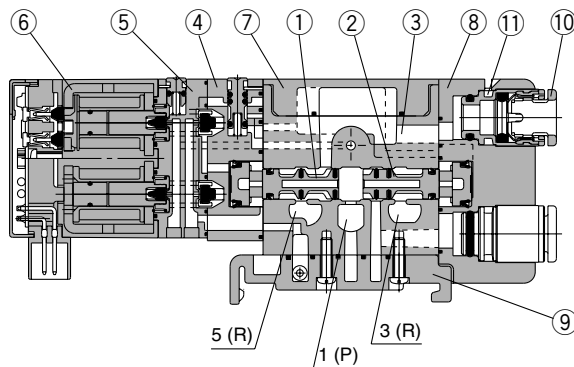
SZ3A60 [N.C. valve x 2 pcs.]



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



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



SV

SZ

SY

SYJ

SX

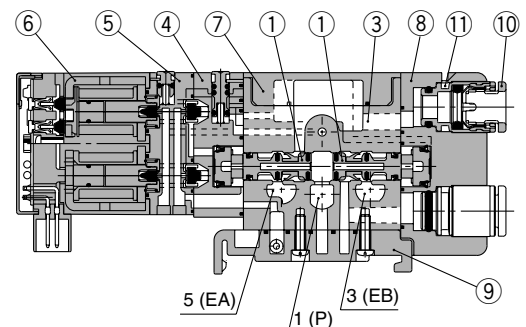
Component Parts

No.	Description	Material	Note
①	Spool valve assembly	Resin/HNBR	For N.C. (Normally closed)
②	Spool valve assembly	Resin/HNBR	For N.O. (Normally open)
③	Body	Zinc die-casted	—
④	Adapter plate	Resin	Urban white
⑤	Pilot body	Resin	Urban white
⑥	Molded coil	—	Urban gray
⑦	Body cover	Resin	Urban white
⑧	Port block	Resin	Urban white
⑨	Bottom cover assembly	—	Urban white

Replacement Parts

No.	Description	Part no.
⑩	One-touch fitting	Refer to One-touch fitting part number information on page 1-3-5.
⑪	Clip	SX3000-115-2

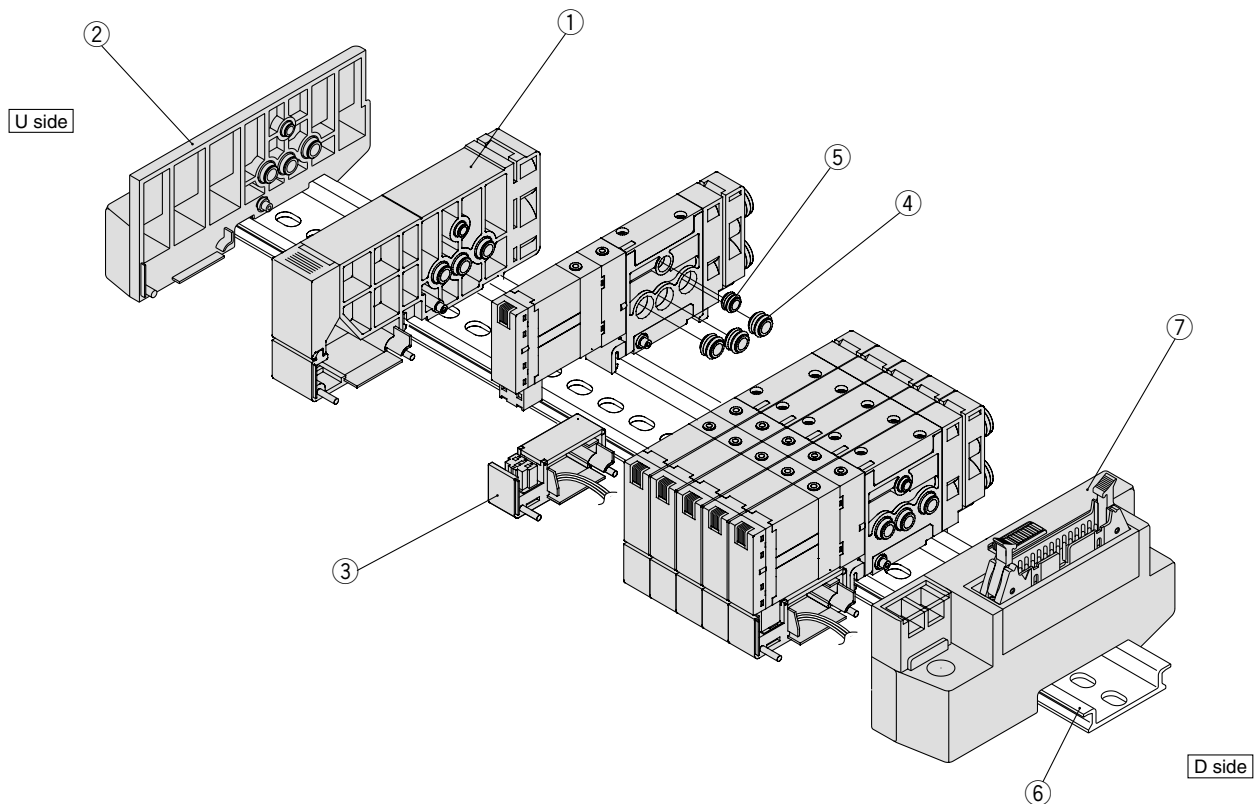
SZ3A60K/With back pressure check valve



Series SZ3000

Manifold Exploded View

Type 60P Manifold (Plug-in, flat ribbon cable type)



Component Parts

No.	Description	Part no.	Note
①	SUP/EXH block assembly	SZ3000-50-1A-□□	C6: With One-touch fitting for ø6 C8: With One-touch fitting for ø8 L6: With One-touch fitting for ø6 (Elbow fetching upward) L8: With One-touch fitting for ø8 (Elbow fetching upward) B6: With One-touch fitting for ø6 (Elbow fetching downward) B8: With One-touch fitting for ø8 (Elbow fetching downward)
②	End block assembly	SZ3000-53-5A	
③	Housing holder	SX3000-113-1	
④	SUP block bush assembly	SZ3000-114-3A	
⑤	SUP block bush assembly	SZ3000-114-1A	
⑥	DIN rail	VZ1000-11-1-□	Refer to page 1-3-12.
⑦	Connector block assembly	SZ3000-42-□□	Refer to connector block assembly part no. table below.

Connector Block Assembly Part No.

Connector specifications	Mounting position	Part no.		Note
		Without power supply terminals	With power supply terminals	
For D-sub connector	D side	SZ3000-42-1A-□□□¹₂	SZ3000-42-2A-□□□¹₂-^P_N	*1: Perpendicular connector *2: Lateral connector P: Positive common N: Negative common
For flat ribbon cable 26 pins	D side	SZ3000-42-3A-□□□¹₂	SZ3000-42-4A-□□□¹₂-^P_N	
For flat ribbon cable 20 pins	D side	SZ3000-42-5A-□□□¹₂	SZ3000-42-6A-□□□¹₂-^P_N	(Note) The assembly part numbers with power supply terminals are 24 VDC specifications. If 12 VDC specifications are required, enter "12" at the end of the assembly part number.
For flat ribbon cable 10 pins	D side	SZ3000-42-7A-□□□¹₂	SZ3000-42-8A-□□□¹₂-^P_N	
For serial	D side	SZ3000-42-10A-□□□	—————	

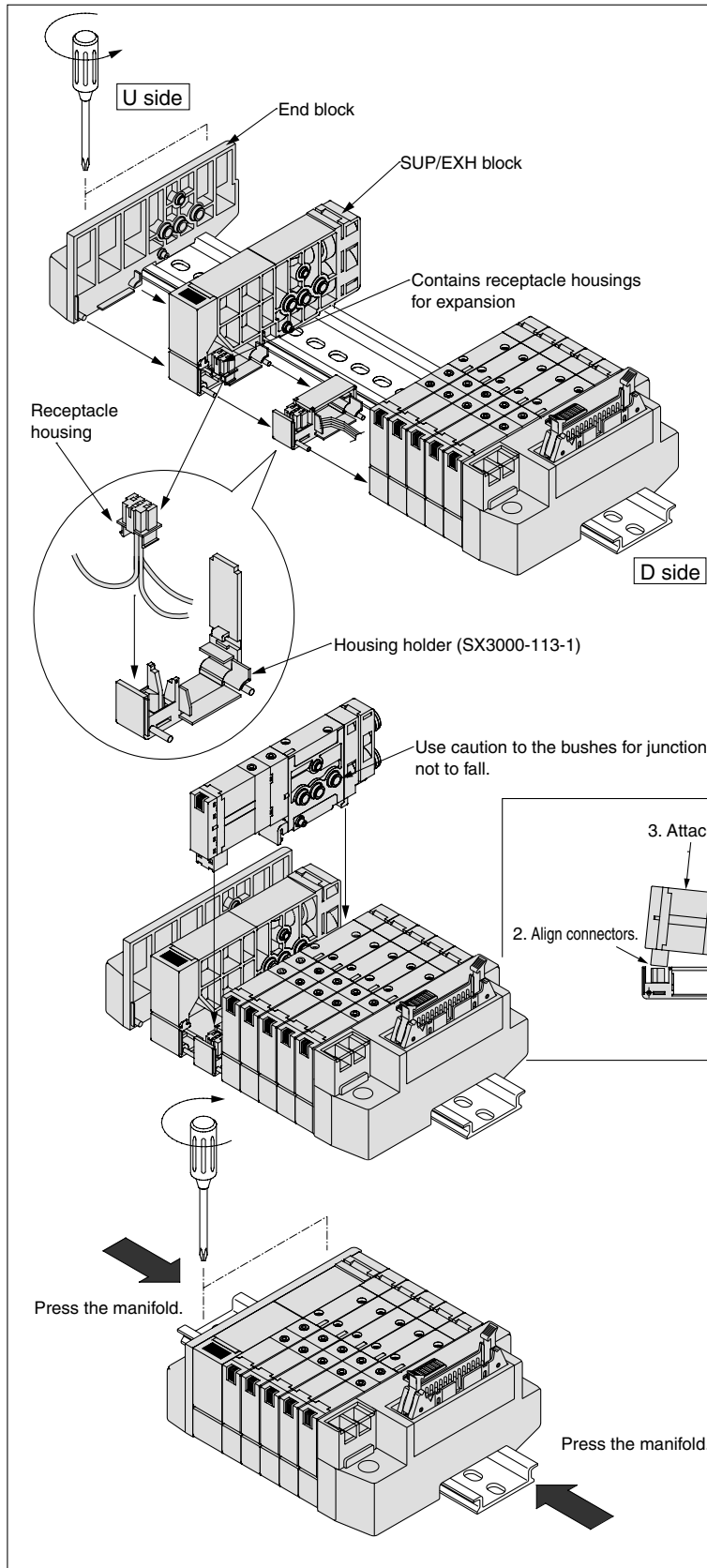


Note) Connector block assembly can be shipped as an assembly only in the case of double wiring. Since the possible number of stations differs depending on the connector type, refer to the valve station section on catalog pages 1-3-6, 1-3-7, and 1-3-32, and enter the number of stations in the mm section of the assembly part number. Please contact SMC if a connector block assembly is required having a wiring specification other than double wiring.

Plug-in Manifold Station Expansion

⚠ Caution In addition to solenoid valves, housing holders (SX3000-113-1) are necessary for expansion of manifold stations.

- Double wiring specifications manifolds which do not have the maximum number of stations, contain spare receptacle housings for expansion in the housing holder of the last station, or inside the supply/exhaust block assembly (for a maximum of 2 stations). When expanding stations, perform the disassembly and assembly of the manifold while referring to the expansion method shown below.



- (1) Loosen the DIN rail holding screw if the end block on the U side.
- (2) Separate the end block and SUP/EXH block.
- (3) Take out the receptacle housing for expansion which is inside the SUP/EXH block, attach it to the newly added housing holder, and attach to the manifold. (Numbers are displayed on the side of the receptacle housings, and they should be used in order from the lowest number.)

- (4) Mount the valve on the DIN rail.

- (5) While pressing the manifold together from both sides, refasten the side U end block's DIN rail holding screw.

⚠ Caution (Tightening torque: 1.4 N·m)

⚠ Caution

1. Be sure to shut off the power and air supplies before disassembly. Furthermore, since air may remain inside the actuator, piping and manifold, confirm that the air is completely exhausted before performing any work.
2. When disassembly and assembly are performed, air leakage may result if connections between blocks and tightening of the end block's holding screw, is inadequate. Before supplying air, confirm that there are no gaps, etc. between blocks, and that manifold blocks are securely fastened to the DIN rail. Then supply air and confirm that there is no air leakage before operating.
3. Note that for manifolds specified with other than double wiring, spare receptacle housings for expansion are not included unless indicated at the time of order.

SV

SZ

SY

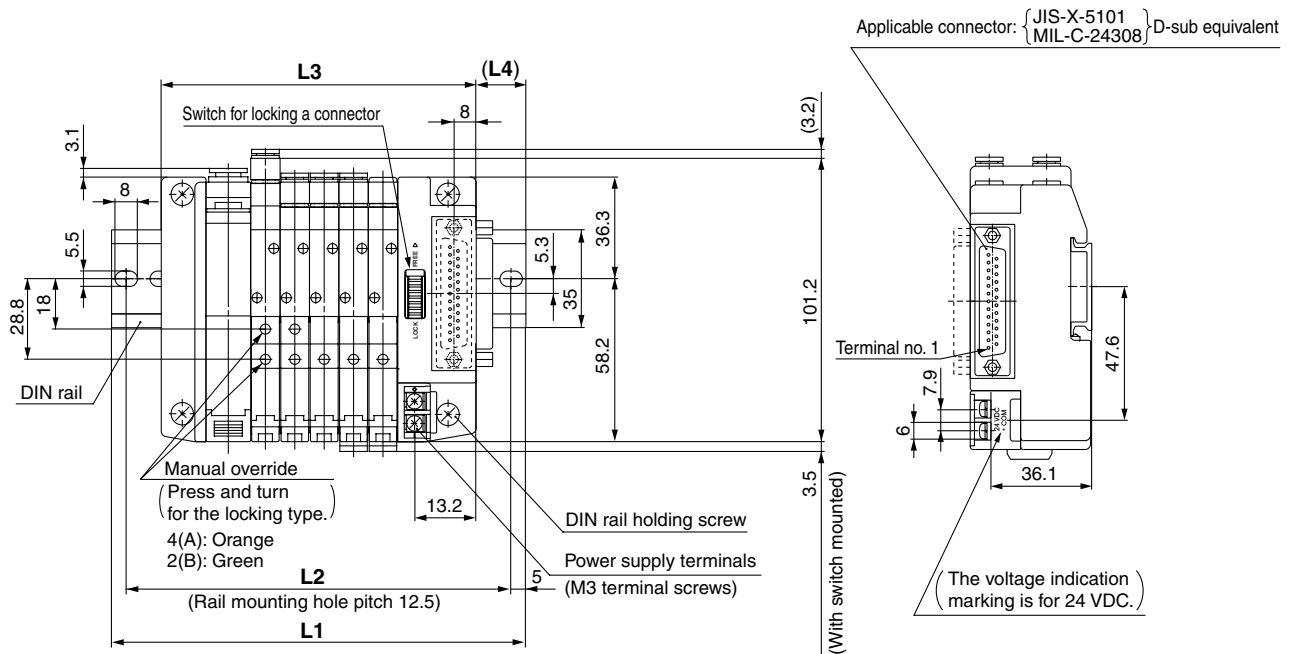
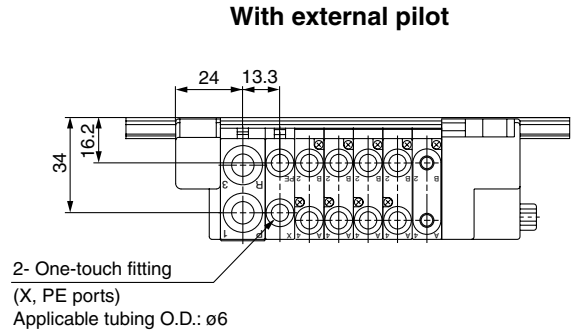
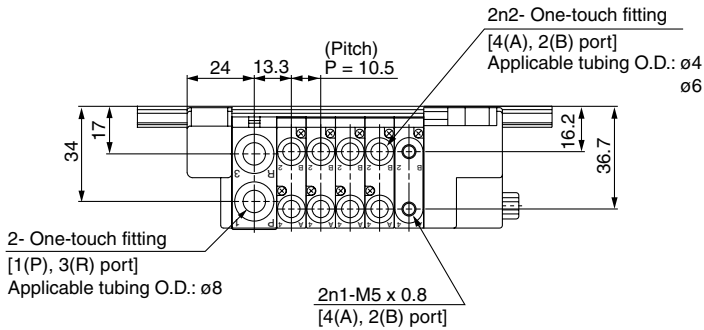
SYJ

SX

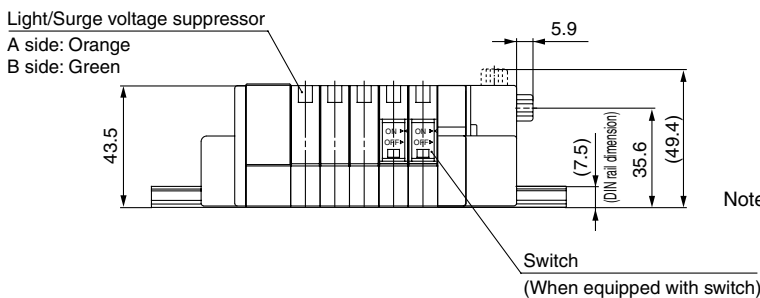
Series SZ3000

Dimensions: SZ3000 Plug-in

SS5Z3-60FD₂- Stations U-□



(Station n) (Station 1)



Note) For manifold dimensions with elbow fitting, refer to page 1-3-24.

Internal Pilot Manifold L Dimension n: Stations (n1 + n2)

L \ n	2	3	4	5	6	7	8	9	10
L1	110.5	123	135.5	148	148	160.5	173	185.5	198
L2	100	112.5	125	137.5	137.5	150	162.5	175	187.5
L3	81	91.5	102	112.5	123	133.5	144	154.5	165
L4	15	16	17	18	12.5	13.5	14.5	15.5	16.5

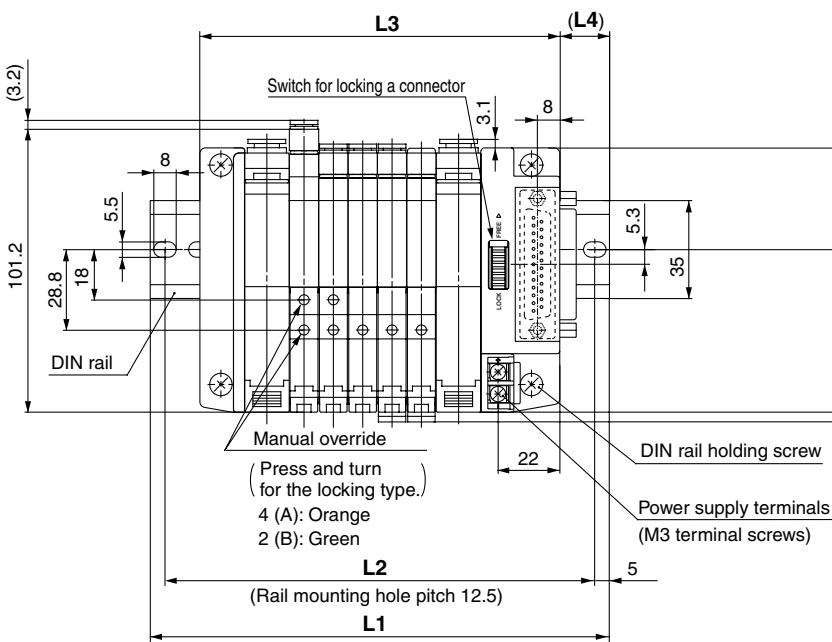
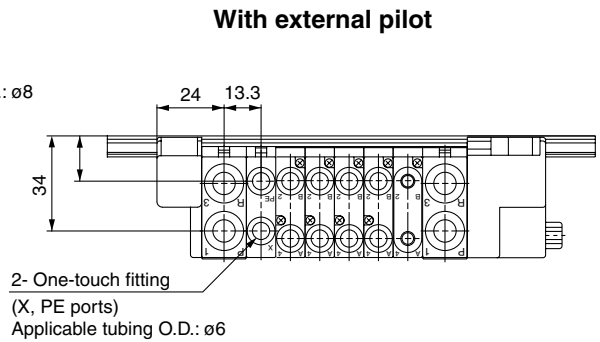
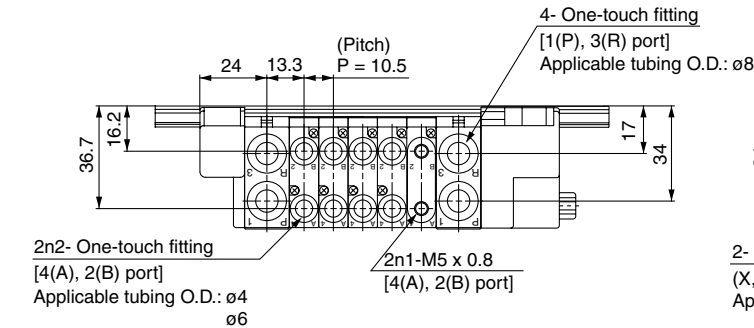
External Pilot Manifold L Dimension n: Stations (n1 + n2)

L \ n	2	3	4	5	6	7	8	9	10
L1	123	135.5	148	148	160.5	173	185.5	198	210.5
L2	112.5	125	137.5	137.5	150	162.5	175	187.5	200
L3	91.5	102	112.5	123	133.5	144	154.5	165	175.5
L4	16	17	18	12.5	13.5	14.5	15.5	16.5	17.5

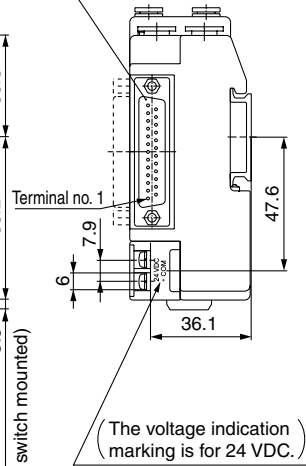
Cassette Type Manifold Plug-in Series SZ3000

Dimensions: SZ3000 Plug-in

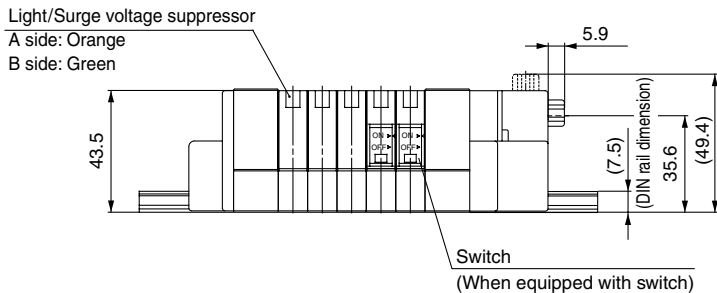
SS5Z3-60FD₂- Stations B-□



Applicable connector: { JIS-X-5101 } D-sub equivalent
{ MIL-C-24308 }



(Station n) (Station 1)



Note) For manifold dimensions with elbow fitting, refer to page 1-3-24.

Internal Pilot Manifold L Dimension

n: Stations (n1 + n2)

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

External Pilot Manifold L Dimension

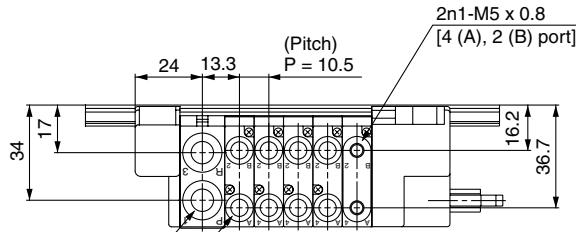
n: Stations (n1 + n2)

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

Series SZ3000

Dimensions: SZ3000 Plug-in

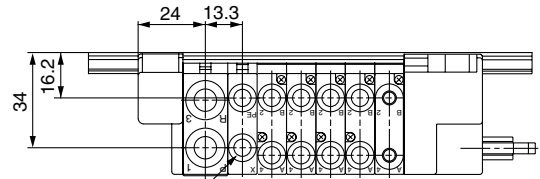
SS5Z3-60PD₁- Stations U-□ (26 pins)



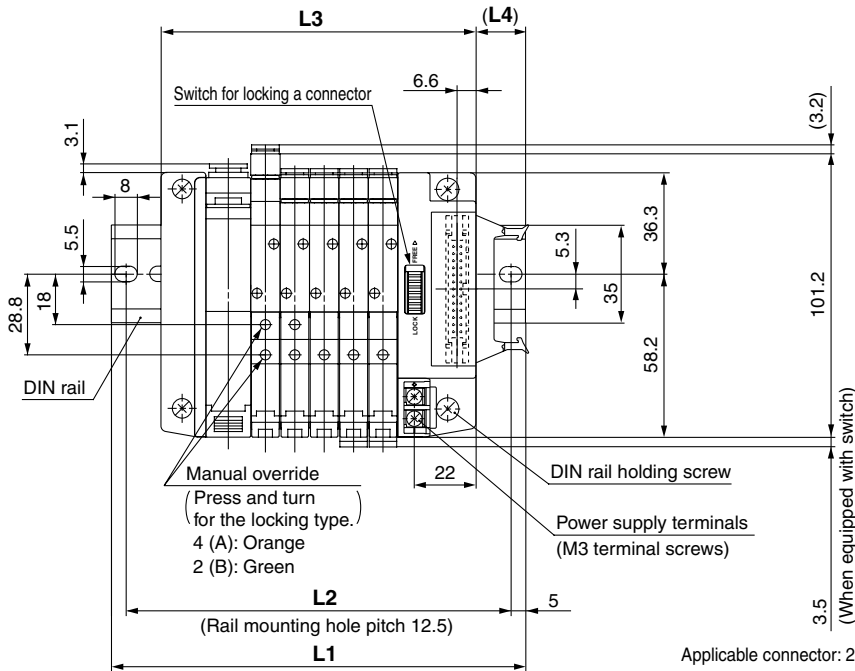
2- One-touch fitting
[1 (P), 3 (R) port]
Applicable tubing O.D.: ø8

2n2- One-touch fitting
[4 (A), 2 (B) port]
Applicable tubing O.D.: ø4
ø6

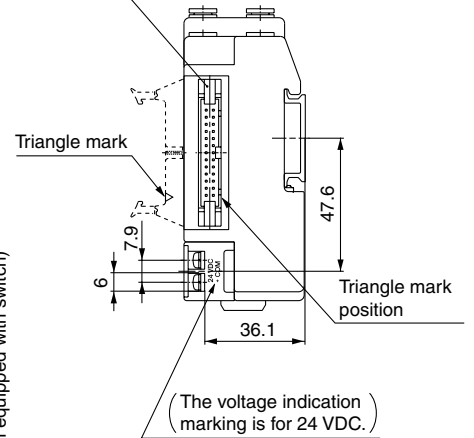
With external pilot



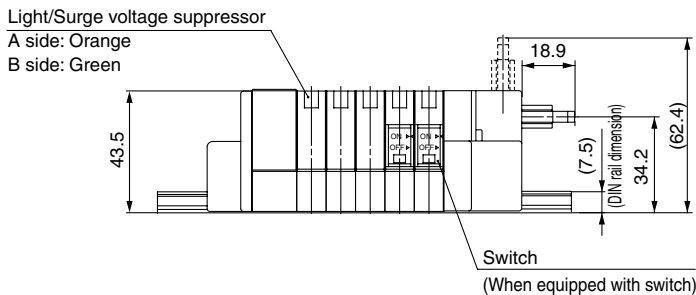
2- One-touch fitting
(X, PE ports)
Applicable tubing O.D.: ø6



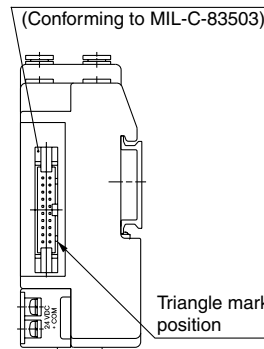
Applicable connector: 26 pins MIL type
With strain relief
(Conforming to MIL-C-83503)



(Station n) (Station 1)

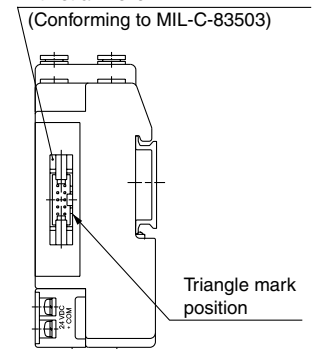


Applicable connector: 20 pins MIL type
With strain relief
(Conforming to MIL-C-83503)



60PG (20 pins)

Applicable connector: 10 pins MIL type
With strain relief
(Conforming to MIL-C-83503)



60PH (10 pins)

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

Note 2) For manifold dimensions with elbow fitting, refer to page 1-3-24.

Internal Pilot Manifold L Dimension n: Stations (n1 + n2)

L \ n	2	3	4	5	6	7	8	9	10
L1	110.5	123	135.5	148	148	160.5	173	185.5	198
L2	100	112.5	125	137.5	137.5	150	162.5	175	187.5
L3	81	91.5	102	112.5	123	133.5	144	154.5	165
L4	15	16	17	18	12.5	13.5	14.5	15.5	16.5

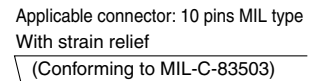
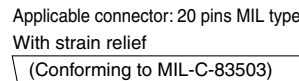
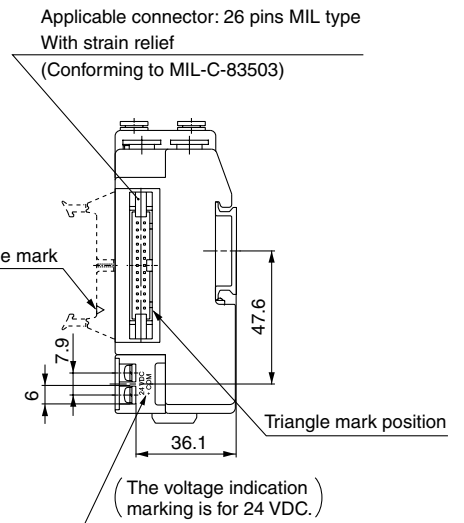
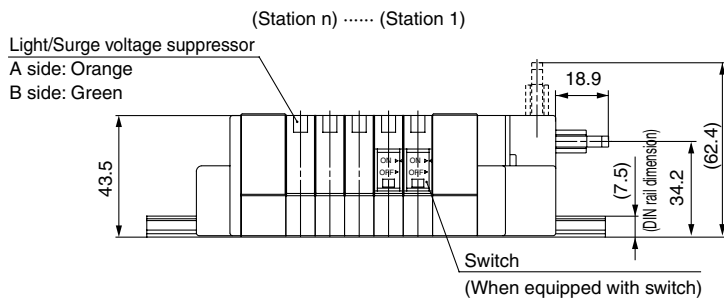
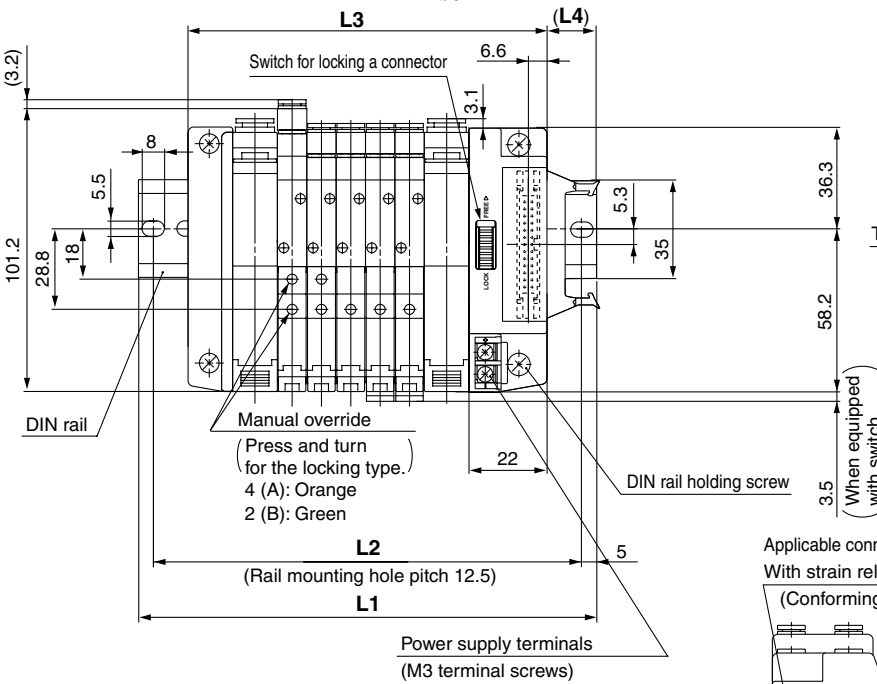
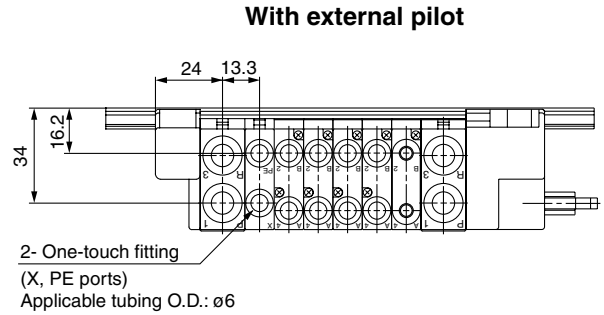
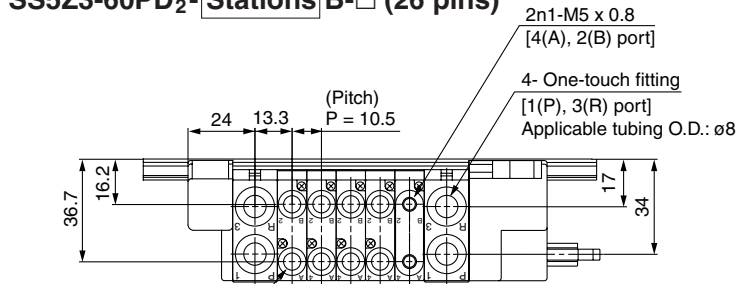
External Pilot Manifold L Dimension n: Stations (n1 + n2)

L \ n	2	3	4	5	6	7	8	9	10
L1	123	135.5	148	148	160.5	173	185.5	198	210.5
L2	112.5	125	137.5	137.5	150	162.5	175	187.5	200
L3	91.5	102	112.5	123	133.5	144	154.5	165	175.5
L4	16	17	18	12.5	13.5	14.5	15.5	16.5	17.5

Cassette Type Manifold Plug-in Type Series SZ3000

Dimensions: SZ3000 Plug-in

SS5Z3-60PD₂ - Stations B-□ (26 pins)



60PG (20 pins)

60PH (10 pins)

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

Note 2) For manifold dimensions with elbow fitting, refer to page 1-3-24.

Internal Pilot Manifold L Dimension

n: Stations (n1 + n2)

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

External Pilot Manifold L Dimension

n: Stations (n1 + n2)

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

Series SZ3000

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

SS5Z3-60FD₂¹ - Stations U_B^L - □

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

