

5 Port Solenoid Valve

Series SZ3000

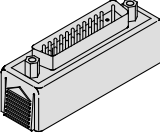
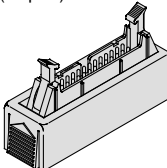
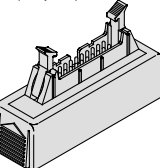
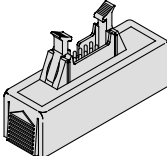
Plug-in Type

How to Order

• Plug-in manifold with power supply terminals

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

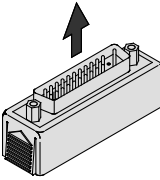
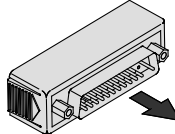
• Connector type

F: D-Sub connector (25 pins) 	P: Flat cable (26 pins) 
PG: Flat cable (20 pins) 	PH: Flat cable (10 pins) 

• Connector mounting position

Symbol	Mounting position
D	D side

• Connector entry direction

1: Perpendicular connector 	2: Lateral connector 
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• Supply/Exhaust 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

* In the case of special specifications, indicate separately on a manifold specification sheet.
 Note) A total of up to 3 supply/exhaust blocks can be mounted. Contact SMC if 4 or more will be mounted.

• Pilot specifications

Nil	Internal pilot specifications
R	External pilot specifications

• Options

When a DIN rail is required that is longer than the standard types, specify the number of stations.

• Power supply terminal specifications

Symbol	Specifications
P	24VDC, positive common
P12	12VDC, positive common
N	24VDC, negative common
N12	12VDC, negative common

• Supply/Exhaust block fitting specifications

Nil	Straight
L	Elbow fittings (upward)
B	Elbow fittings (downward)

• Valve stations

F: D-sub connector

Symbol	Stations	Note
02	2 stations	Double wiring specification <small>Note 1)</small>
⋮	⋮	
10	10 stations	Specified layout <small>Note 2)</small> (up to 21 solenoids possible)
02	2 stations	
⋮	⋮	
20	20 stations	

P: Flat cable connector (26 pins)

Symbol	Stations	Note
02	2 stations	Double wiring specification
⋮	⋮	
11	11 stations	Specified layout (up to 22 solenoids possible)
02	2 stations	
⋮	⋮	
20	20 stations	

PG: Flat cable connector (20 pins)

Symbol	Stations	Note
02	2 stations	Double wiring specification
⋮	⋮	
08	8 stations	Specified layout (up to 16 solenoids possible)
02	2 stations	
⋮	⋮	
16	16 stations	

PH: Flat cable connector (10 pins)

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

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

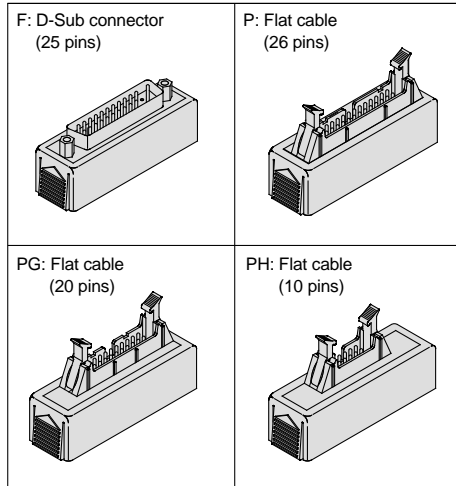
Note 2) Specified layout: Indicate the wiring specifications on a manifold specification sheet. (Please note that in locations where single solenoid wiring is indicated, it will be impossible to use double or 3 position/4 position valves.)

How to Order

• Plug-in manifold [without power supply terminals]

SS5Z3-60 F D 1 - 05 U [] [] - []

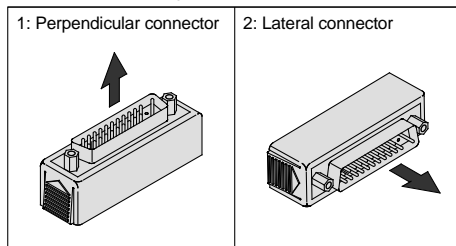
• Connector type



• Connector mounting position

Symbol	Mounting position
D	D side

• Connector entry direction



• Supply/Exhaust 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

* In the case of special specifications, indicate separately on a manifold specification sheet.

Note) A total of up to 3 supply/exhaust blocks can be mounted. Contact SMC if 4 or more will be mounted.

• Options

When a DIN rail is required that is longer than the standard types, specify the number of stations.

• Supply/Exhaust block fitting specifications

Nil	Straight
L	Elbow fittings (upward)
B	Elbow fittings (downward)

• Pilot specifications

Nil	Internal pilot specifications
R	External pilot specifications

• Valve stations

F: D-sub connector

Symbol	Stations	Note
02	2 stations	Double wiring specification <small>Note 1)</small>
⋮	⋮	
12	12 stations	Specified wiring <small>Note 2)</small> (up to 24 solenoids possible)
13	13 stations	
⋮	⋮	
20	20 stations	

P: Flat cable connector (26 pins)

Symbol	Stations	Note
02	2 stations	Double wiring specification
⋮	⋮	
12	12 stations	Specified wiring (up to 25 solenoids possible)
13	13 stations	
⋮	⋮	
20	20 stations	

PG: Flat cable connector (20 pins)

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

PH: Flat cable connector (10 pins)

Symbol	Stations	Note
02	2 stations	Double wiring specification
⋮	⋮	
04	4 stations	Specified wiring (up to 9 solenoids possible)
05	5 stations	
⋮	⋮	
09	9 stations	

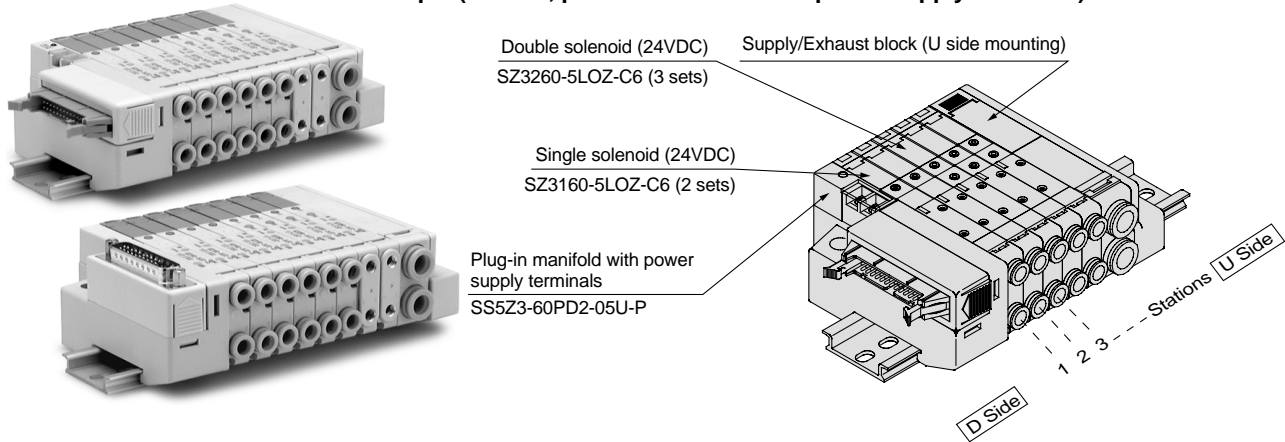
Note 1) Double wiring specifications: Single, double and 3 position/4 position solenoid valves can be used at all of the manifold stations.

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

Series SZ3000

How to Order Manifold Assemblies (Example)

Example (SZ3000, positive common with power supply terminals)



SS5Z3-60PD2-05U-P....1 set (manifold part number)
 *SZ3160-5LOZ-C6 2 sets (single solenoid part number)
 *SZ3260-5LOZ-C6 3 sets (double solenoid part number)

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

- Valve stations are numbered **from station 1 on the D side.**
- Indicate the valves to be attached below the manifold part number, in order starting from station 1 as shown in the drawing. When a layout becomes complicated, please indicate on a manifold specification sheet. (Manifold specification sheet on page ①1-41.)

Manifold Specifications

Model	D-sub connector 60F	Flat cable type 60P□		
		60P	60PG	60PH
Manifold type	Plug-in type			
P (SUP), R (EXH) system	Common SUP, EXH			
Valve stations (with power terminal)	2 to 20 stations		2 to 16 stations	2 to 8 stations
A, B port piping specifications	Location	Valve		
	Direction	Lateral, Upward, Downward		
Port size	P, R ports	C8		
	A/B ports	C4, C6, M5		
Valve effective area mm² (Cv factor) <small>Note 2)</small>	C4	P→A/B	3.4 (0.19) [3.0 (0.17)]	
		A/B→R	3.2 (0.18) [3.2 (0.18)]	
	C6	P→A/B	3.7 (0.21) [3.2 (0.18)]	
		A/B→R	3.9 (0.22) [3.8 (0.21)]	
	M5	P→A/B	3.4 (0.19) [3.2 (0.18)]	
		A/B→R	3.2 (0.18) [3.2 (0.18)]	
Applicable connector	D-sub connector Complies with MIL-C-24308 JIS-X-5101	Flat cable connector Socket: 26 pin MIL type with strain relief Complies with MIL-C-83503	Flat cable connector Socket: 20 pin MIL type with strain relief Complies with MIL-C-83503	Flat cable connector Socket: 10 pin MIL type with strain relief Complies with MIL-C-83503
Internal wiring	+COM, -COM			
Weight W (g) <small>Note 3)</small> (n1: Stations n2: Number of supply/exhaust 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 supply/exhaust), applying pressure to the P ports on both sides and exhausting from the R ports on both sides.

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

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

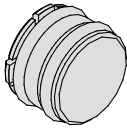
Note 3) The weight W is the value for the D-sub connector manifold with power supply terminals only. To obtain the weight with solenoid valves attached, add the solenoid valve weights given on page ①1-9 for the appropriate number of stations. Refer to page ①1-11 for the weight of DIN rails.

Series SZ3000

Manifold Options

■ SUP blocking disk

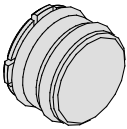
By installing a SUP blocking disk in the pressure supply passage of a manifold valve, it is possible to supply two or more different high and low pressures to one manifold. (Use in combination with a pilot port blocking disk.)



Series	Part no.
SZ3000	SZ3000-114-4A

■ EXH blocking disk

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



Series	Part no.
SZ3000	SZ3000-114-4A

■ Pilot port blocking disk

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



Series	Part no.
SZ3000	SZ3000-114-2A

■ Indicator stickers for blocking disks

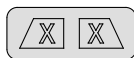
These stickers are to be put on valves in which SUP and EXH blocking disks have been installed so that confirmation is possible from the outside. (3pcs. of each are included.)

SZ3000-155-1A

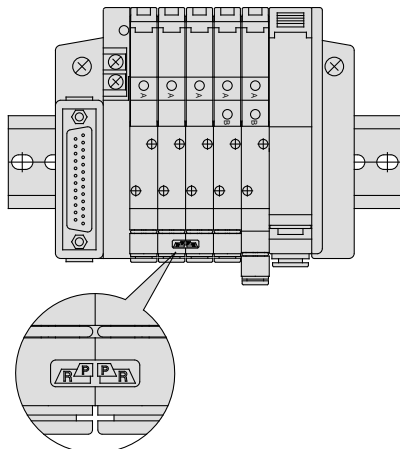
Sticker for SUP/EXH blocking disk Sticker for EXH blocking disk



Sticker for SUP blocking disk Sticker for pilot passage blocking disk

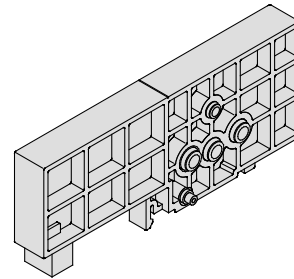


* If blocking disks are ordered on manifold specification sheets, etc., at the same time that manifolds are ordered, stickers will be attached to the valves with blocking disks installed before shipment.



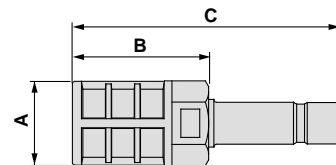
■ Blanking block assembly SZ3000-55-1A

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



■ Silencer with One-touch fitting

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

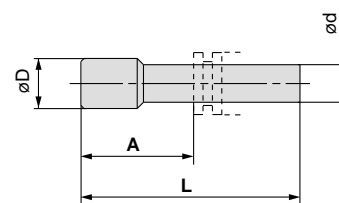


Series	Model	Effective sectional area	A	B	C
for SZ3000 (ø8)	AN203-KM8	14mm ²	ø16	26	51

■ Plugs (white)

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

They can be ordered in multiples of 10 pieces.



Dimensions

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

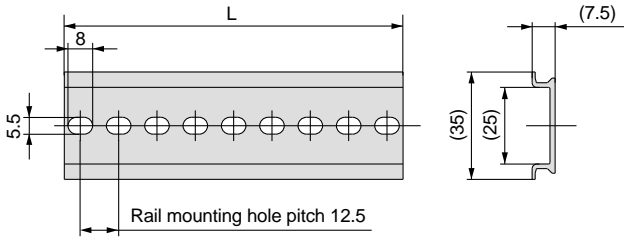
Manifold Options

■ DIN rail dimensions/Weight table

VZ1000-11-1-□

• Refer to the L dimension tables

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



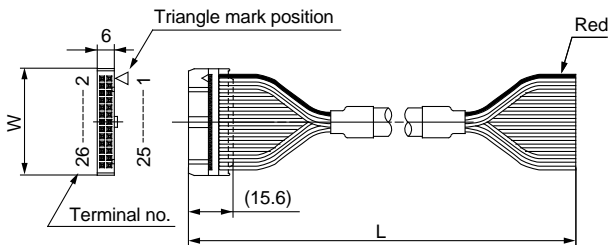
No.	0	1	2	3	4	5	6	7	8	9
L dimension	98	110.5	123	135.5	148	160.5	173	185.5	198	210.5
Weight (g)	17.6	19.9	22.1	24.4	26.6	28.9	31.1	33.4	35.6	37.9

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 cable type/Cable assembly

AXT100-FC□- $\frac{1}{3}$



Flat cable assembly

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

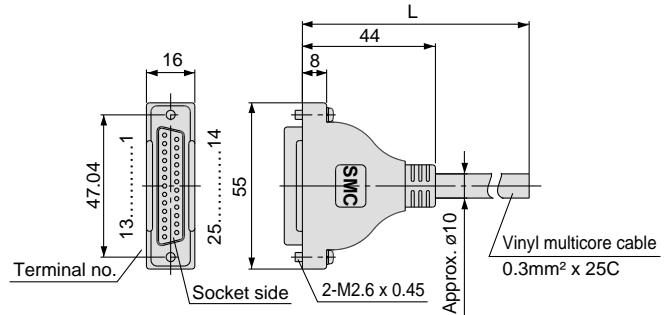
* If it is desired to use a commercially available connector, use one conforming to MIL-C-83503 with strain relief.

Sample of connector manufacturers

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

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

AXT100-DS25- $\frac{015}{030}{050}$



D-sub connector cable assembly wire colors by terminal number

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

D-sub connector cable assembly

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

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

Sample of connector manufacturers

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

Electrical characteristics

Item	Characteristic
Conductor resistance Ω/km , 20°C	65 or less
Withstand voltage VAC for 1min.	1000
Insulation resistance $M\Omega/\text{km}$, 20°C	5 or less

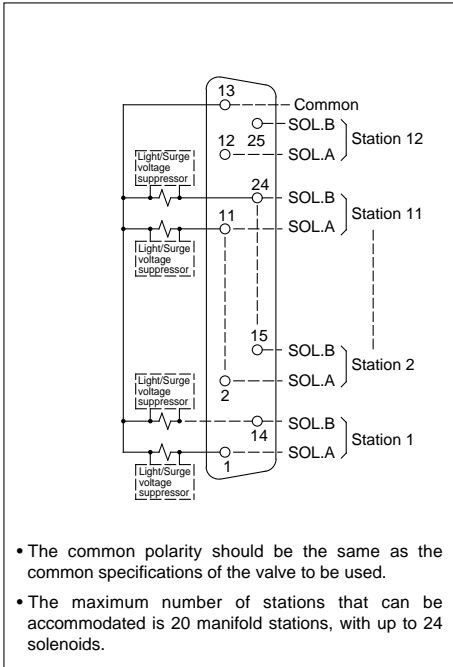
Note) The minimum inside bending radius for the D-sub connector cable is 20mm.

Series SZ3000

Manifold Electrical Wiring

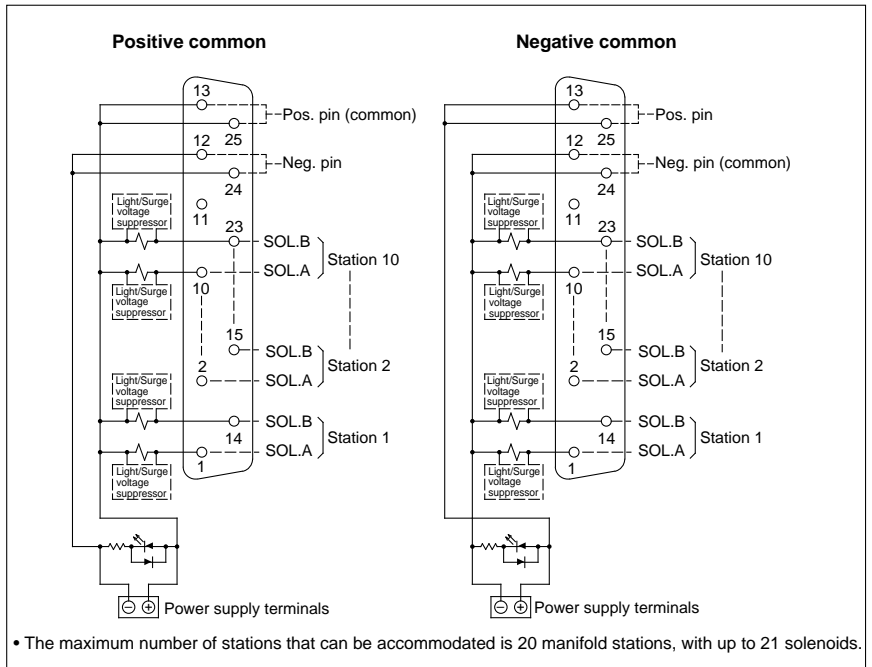
60F D-sub connector type (25 pins)

• Without power supply terminals



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

• With power supply terminals

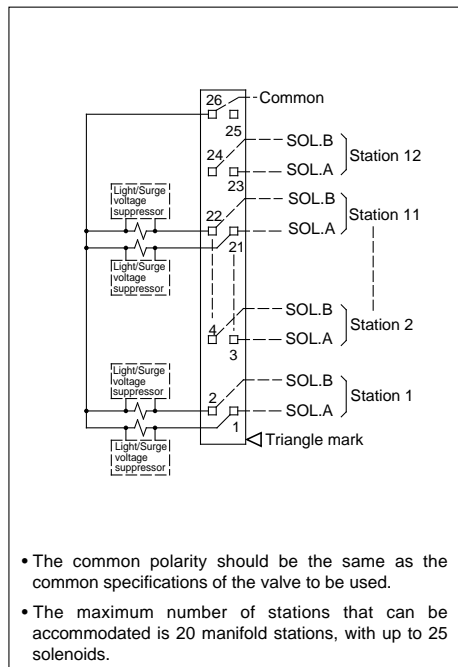


- The maximum number of stations that can be accommodated is 20 manifold stations, with up to 21 solenoids.

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

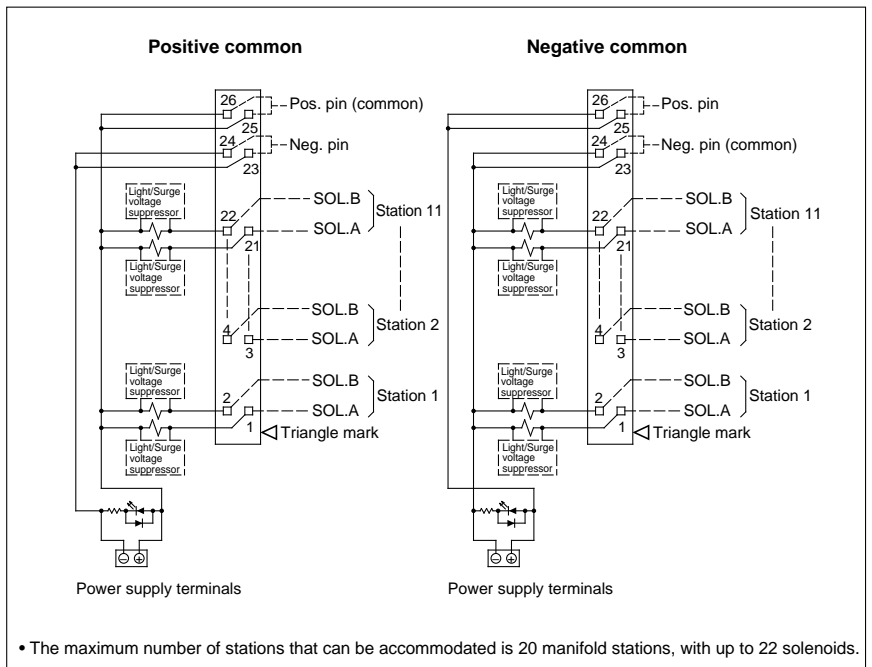
60P Flat cable type (26 pins)

• Without power supply terminals



- The 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 terminals



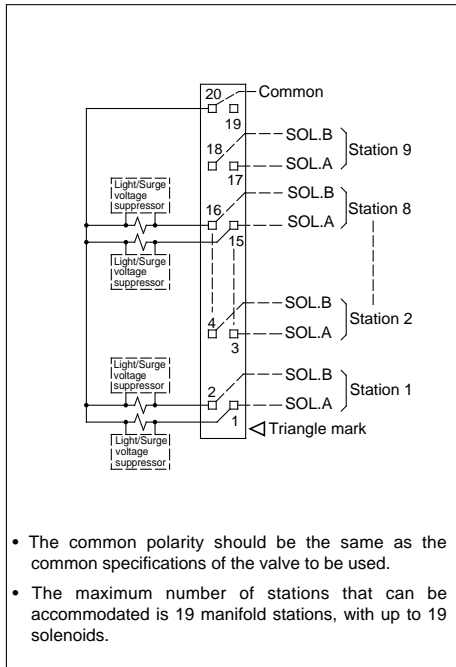
- The maximum number of stations that can be accommodated is 20 manifold stations, with up to 22 solenoids.

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

Manifold Electrical Wiring

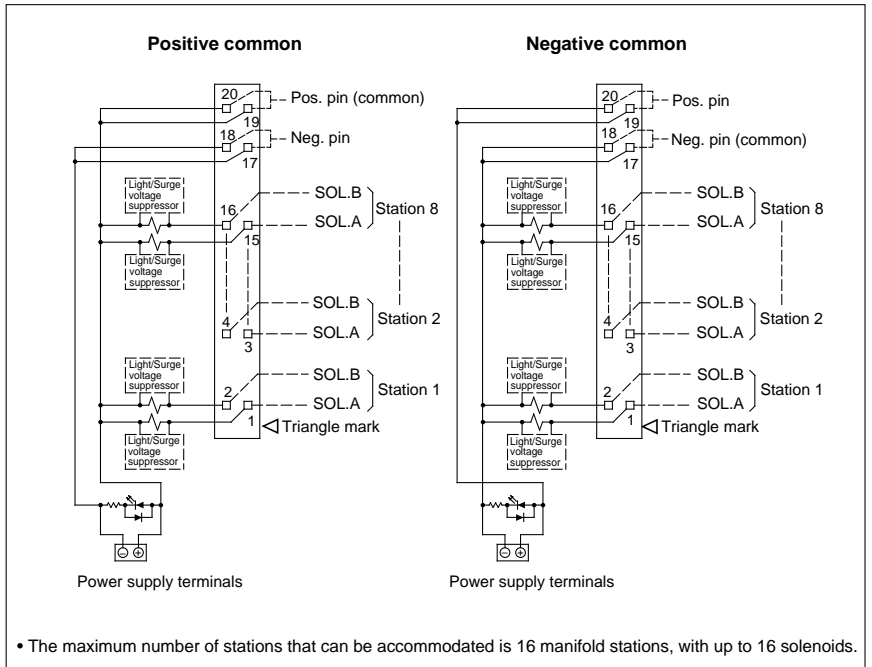
60PG Flat cable type (20 pins)

• Without power supply terminals



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

• With power supply terminals

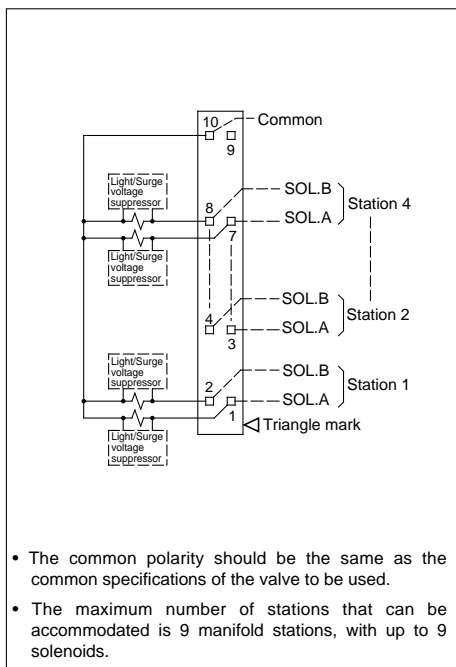


- The maximum number of stations that can be accommodated is 16 manifold stations, with up to 16 solenoids.

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

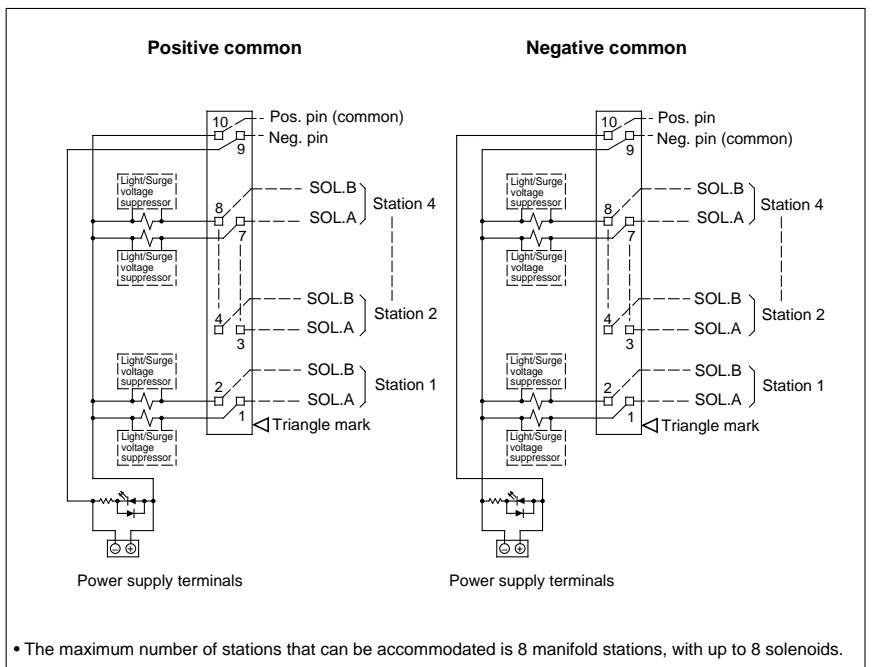
60PH Flat cable type (10 pins)

• Without power supply terminals



- The 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 9 manifold stations, with up to 9 solenoids.

• With power supply terminals



- The maximum number of stations that can be accommodated is 8 manifold stations, with up to 8 solenoids.

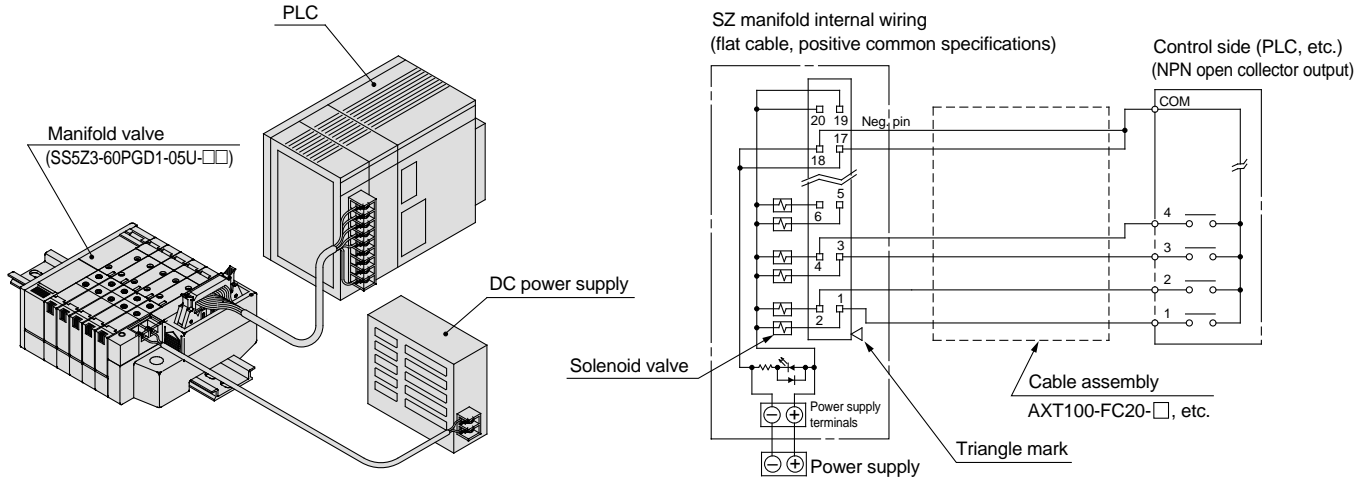
- The circuits above are for the double wiring specification with up to 4 stations. Connect to SOL.A in the case of a single solenoid. Moreover, when wiring instructions are given on a manifold specification sheet, the "A" signal for single and the "A, B" signals for double should be wired in order 1,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

Series SZ3000

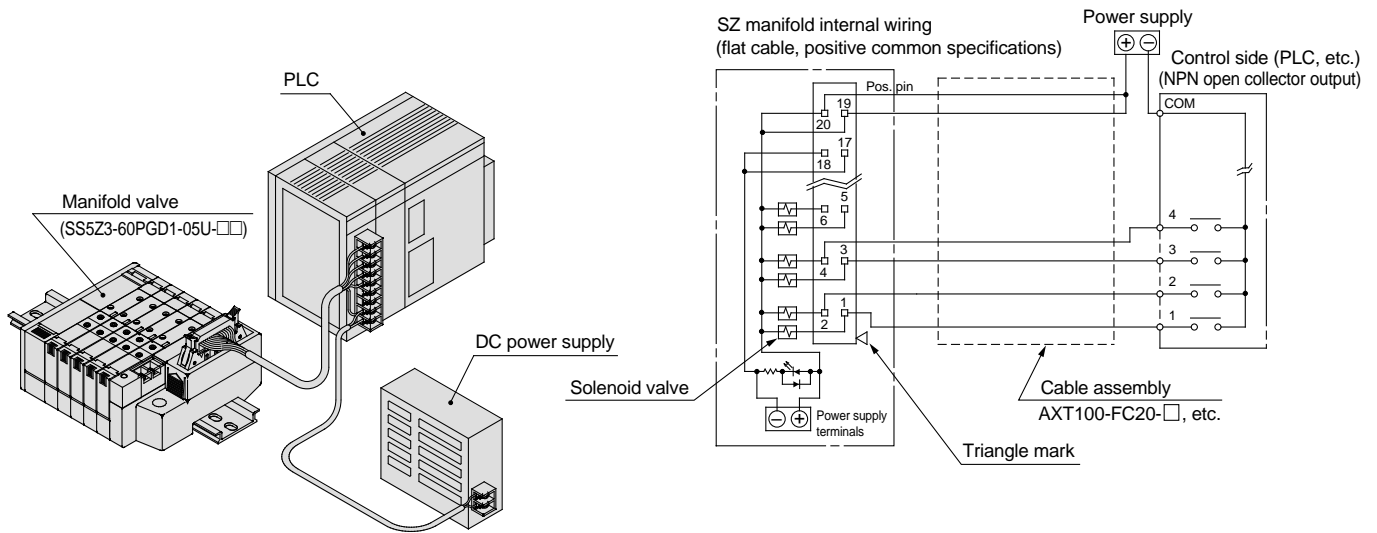
Wiring of Plug-in Type Manifold with Power Supply Terminals (Examples)

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

1. Wiring example when using manifold power supply terminals



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



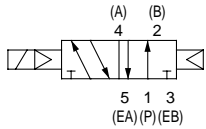
⚠ Caution

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

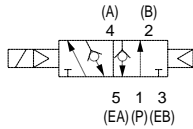
Construction

JIS symbol

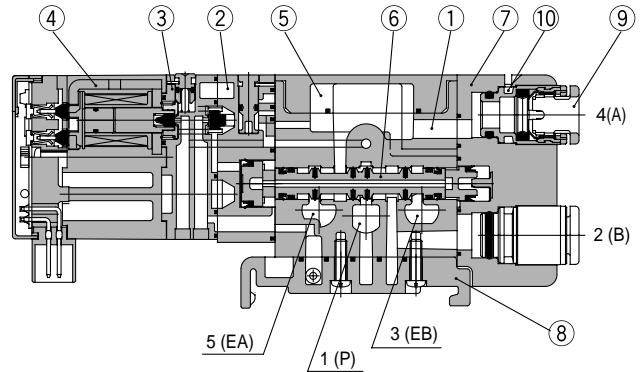
2 position single



2 position single with back pressure check valve

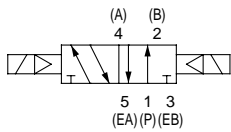


2 position single

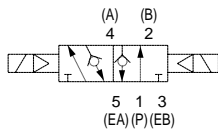


JIS symbol

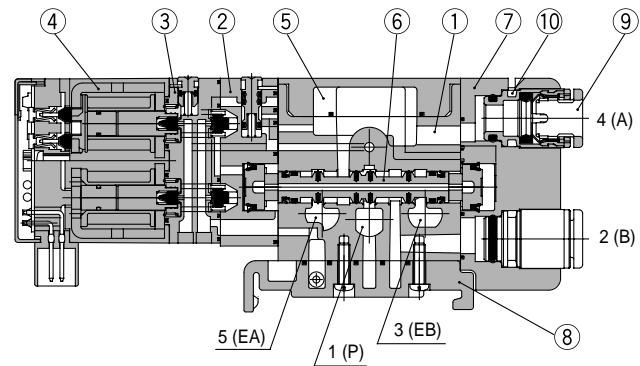
2 position double



2 position double with back pressure check valve

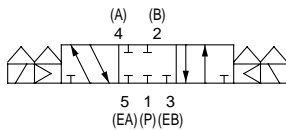


2 position double

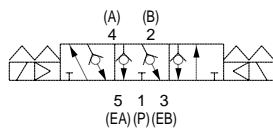


JIS symbol

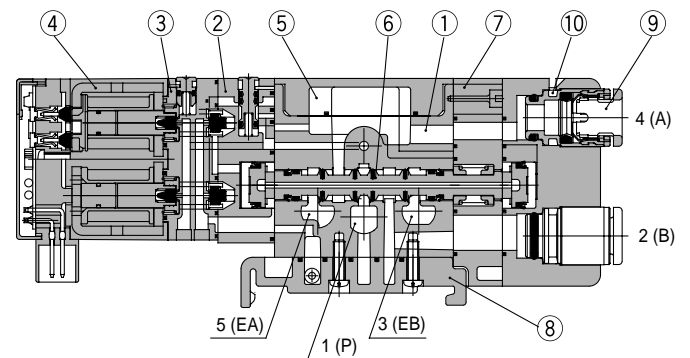
3 position closed center



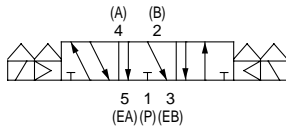
3 position exhaust center with back pressure check valve



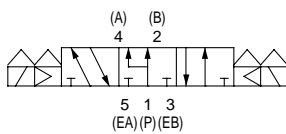
3 position closed center/exhaust center/pressure center



3 position exhaust center



3 position pressure center



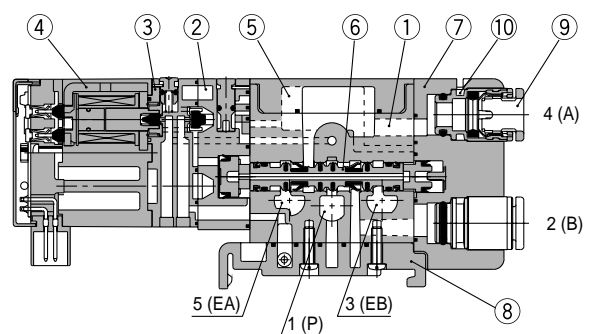
Parts list

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

Replacement parts

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

2 position single with back pressure check valve

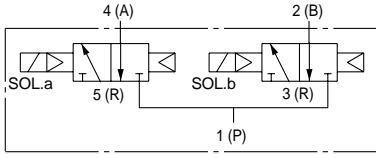


Series SZ3000

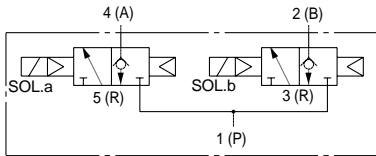
JIS symbol

4 position dual 3 port valve

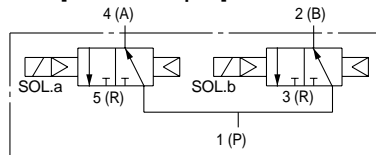
SZ3A60 [N.C. valve x 2pcs.]



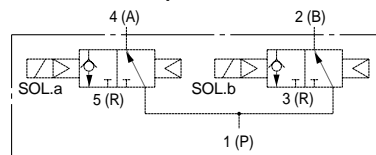
SZ3A60K/With back pressure check valve



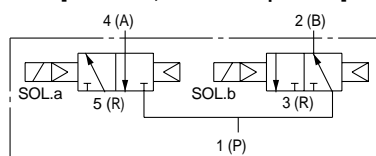
SZ3B60 [N.C. valve x 2pcs.]



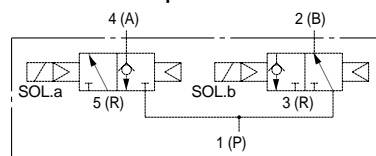
SZ3B60K/With back pressure check valve



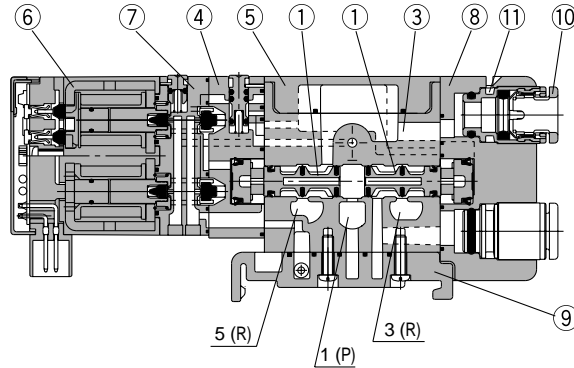
SZ3C60 [N.C. valve, N.O. valve 1pc. each]



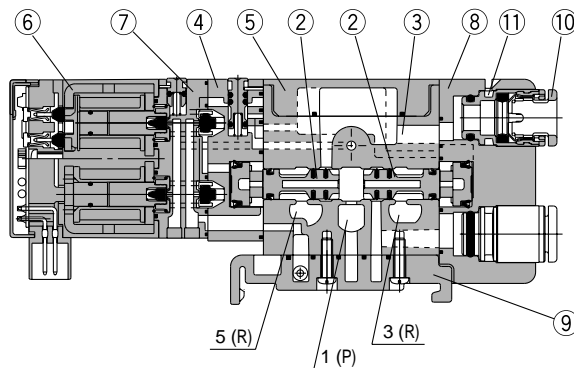
SZ3C60K/With back pressure check valve



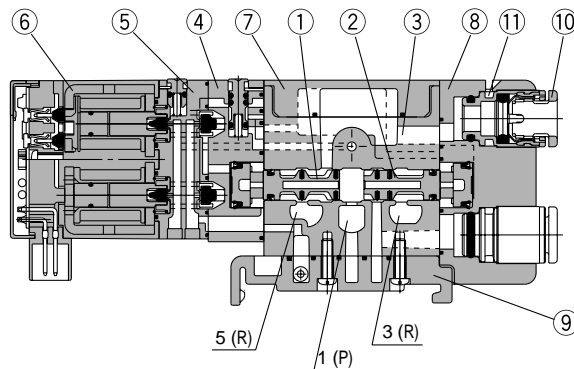
SZ3A60 [N.C. valve x 2pcs.]



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



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



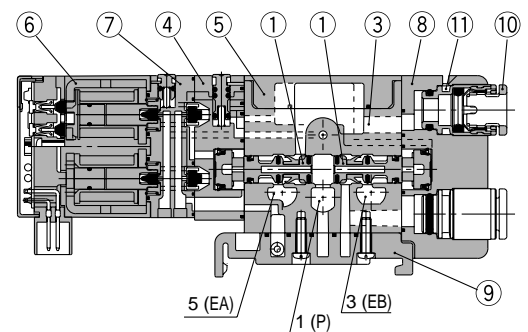
Parts list

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

Replacement parts

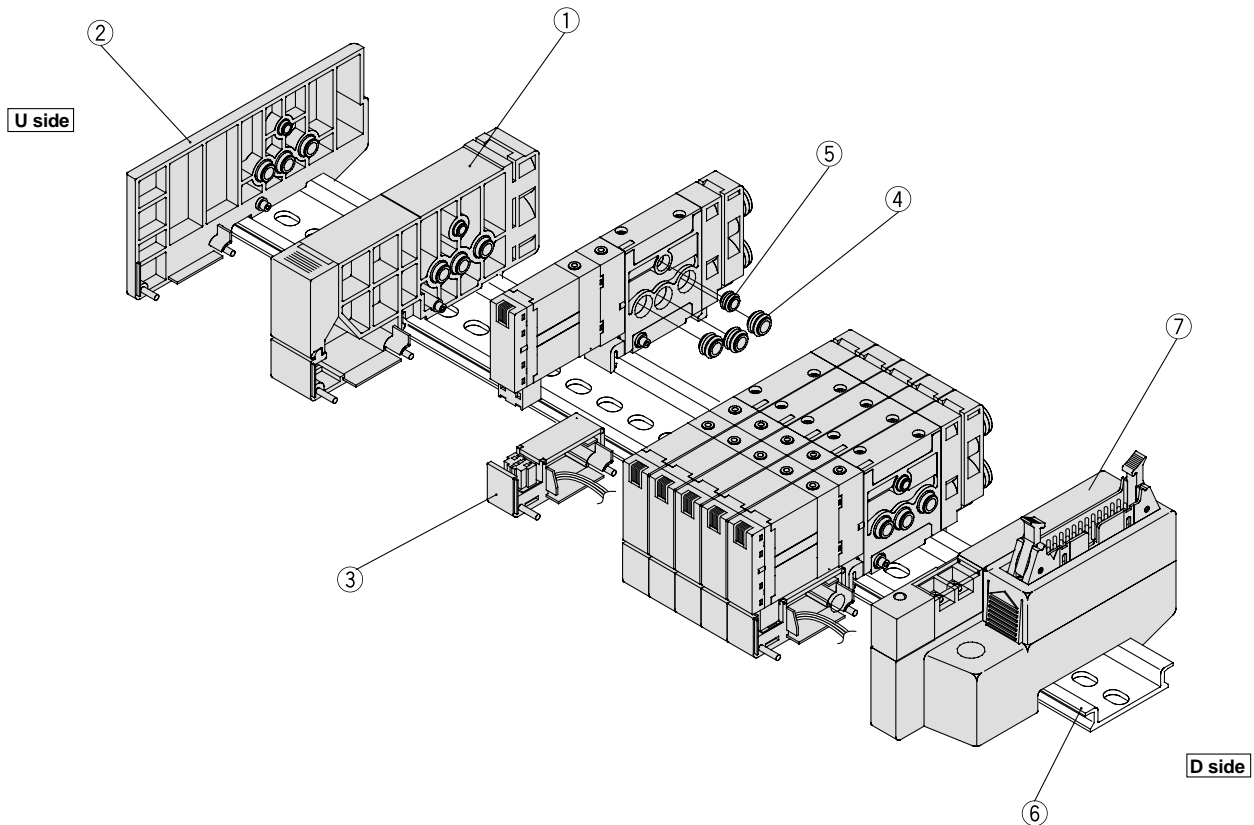
No.	Description	Part no.
10	One-touch fitting	Refer to One-touch fitting part number information on page ①1-51.
11	Clip	SX3000-115-2

SZ3A60K/With back pressure check valve



Manifold Exploded View

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



Parts list

No.	Description	Part no.	Note
1	Supply/Exhaust block assembly	SZ3000-50-1A-$\square$$\squareD\frac{1}{2}$ C6: with ϕ 6 One-touch fitting, C8: with ϕ 8 One-touch fitting	
2	End block assembly	SZ3000-53-1A	
3	Housing holder	SX3000-113-1	
4	Bushing assembly	SZ3000-114-3A	
5	Bushing assembly	SZ3000-114-1A	
6	DIN rail	VZ1000-11-1-\square	Refer to page ①1-11
7	Connector block assembly	SZ3000-40-$\square$$\squareD\frac{1}{2}$	Refer to the connector block assembly part no. table below.

Connector block assembly part numbers

Connector specifications	Mounting position	Part no.		Note
		Without power supply terminals	With power supply terminals	
For D-sub connector	D side	SZ3000-40-1A-$\square$$\squareD\frac{1}{2}$	SZ3000-40-2A-$\square$$\squareD\frac{1}{2}$-P-N	* 1: Perpendicular connector * 2: Lateral connector P: Positive common N: Negative common
For flat cable 26 pins	D side	SZ3000-40-3A-$\square$$\squareD\frac{1}{2}$	SZ3000-40-4A-$\square$$\squareD\frac{1}{2}$-P-N	(Note) The assembly part numbers with power supply terminals are 24VDC specifications. If 12VDC specifications are required, enter "12" at the end of the assembly part number.
For flat cable 20 pins	D side	SZ3000-40-5A-$\square$$\squareD\frac{1}{2}$	SZ3000-40-6A-$\square$$\squareD\frac{1}{2}$-P-N	
For flat cable 10 pins	D side	SZ3000-40-7A-$\square$$\squareD\frac{1}{2}$	SZ3000-40-8A-$\square$$\squareD\frac{1}{2}$-P-N	

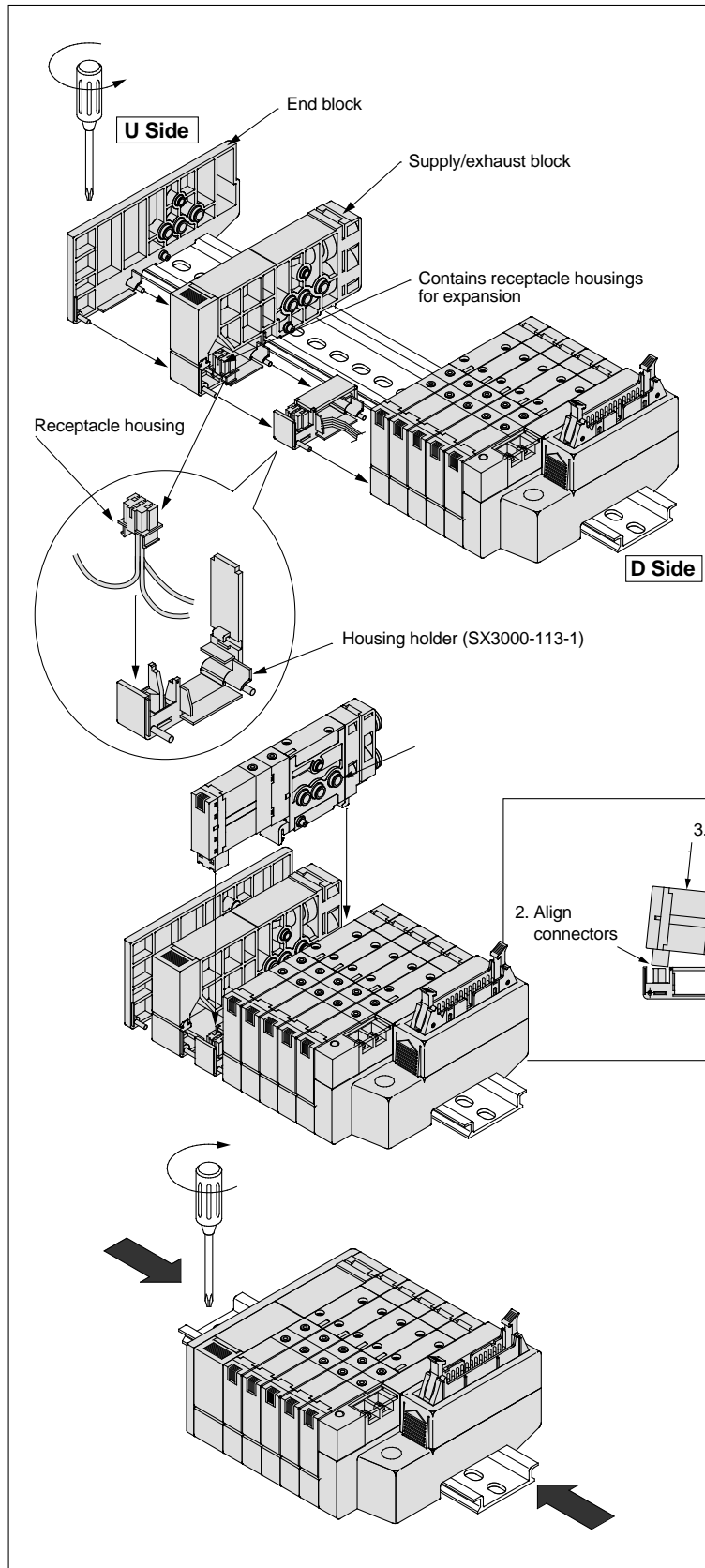
Note 1) A connector block assembly can be shipped as an assembly only in the case of double wiring. Since the possible number of stations differs depending on the connector type, refer to the valve station section on catalog page ①1-6 and enter the number of stations in the \square section of the assembly part number. Contact SMC if a connector block assembly is required having a wiring specification other than double wiring.

Series SZ3000

Plug-in Manifold Station Expansion

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

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



1. Loosen the DIN rail holding screw of the end block on the U side.

2. Separate the end block and supply/exhaust block.

3. Take out the receptacle housing for expansion which is inside the supply/exhaust 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: 1.4Nm)

⚠ Caution

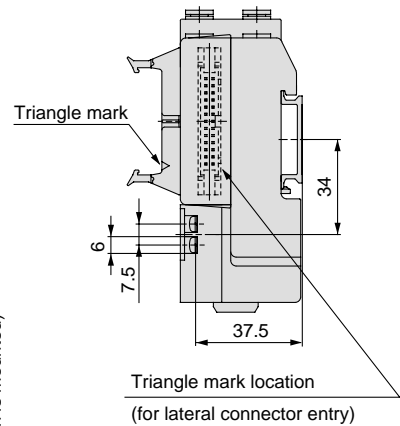
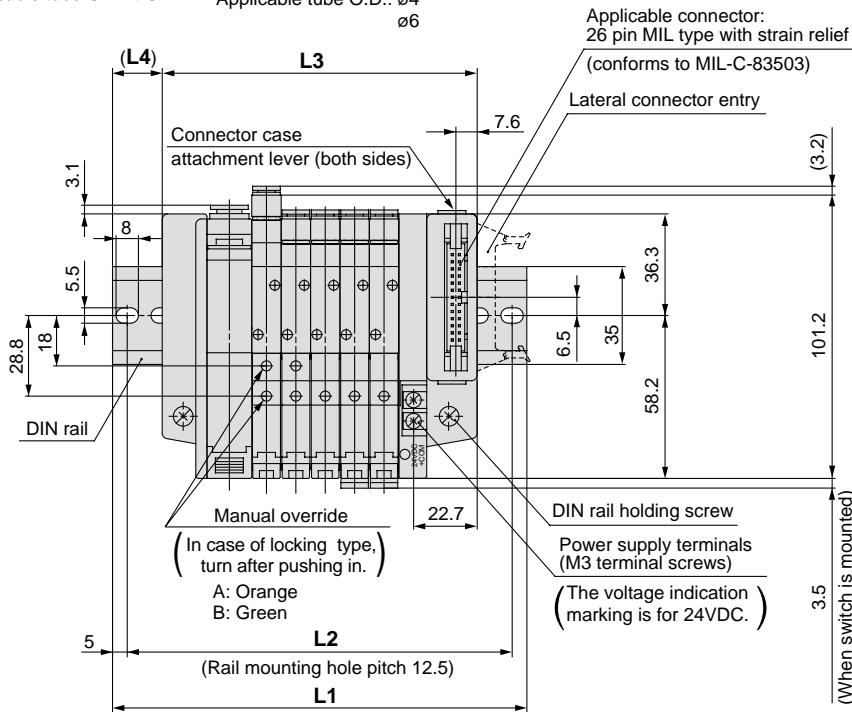
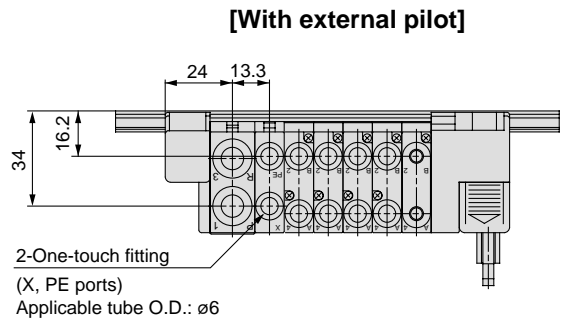
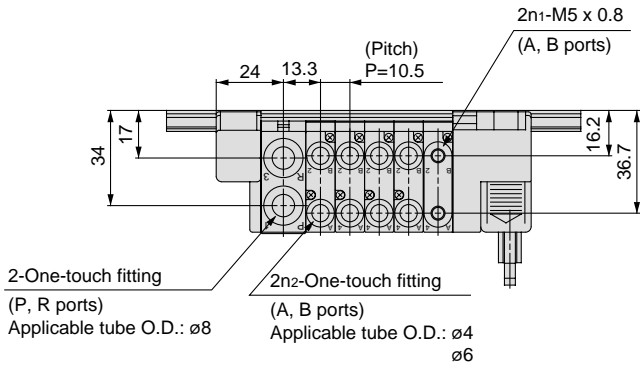
1. Be sure to shut off the power and air supplies before disassembling. Since air may remain inside actuators, piping and manifolds, confirm that the air is completely exhausted before beginning work.
2. When disassembly and assembly are performed, air leakage may result if connections between blocks and tightening of the end block's holding screw, 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.

Cassette Type Manifold Series SZ3000

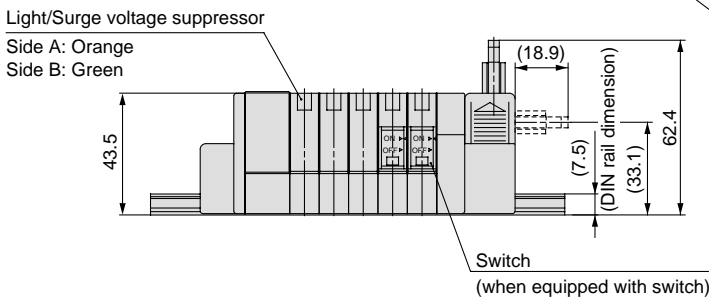
Dimensions/SZ3000: Plug-in

SS5Z3-60PD $\frac{1}{2}$ - Stations U-□ (26 pins)

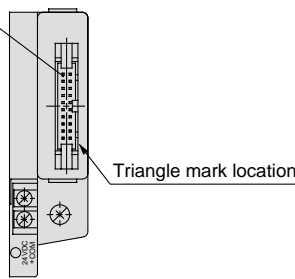
Scale: 37%



(Station n) (Station 1)

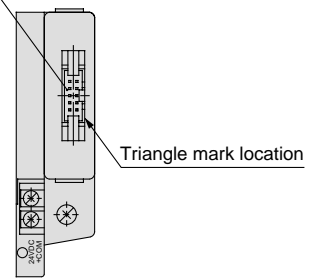


Applicable connector: 20 pin MIL type with strain relief (conforms to MIL-C-83503)



60PG (20 pins)

Applicable connector: 10 pin MIL type with strain relief (conforms 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) Refer to page ①1-23 for manifold dimensions with elbow fitting.

Internal pilot manifold		L: Dimensions									n: Stations (n ₁ + n ₂)	
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			

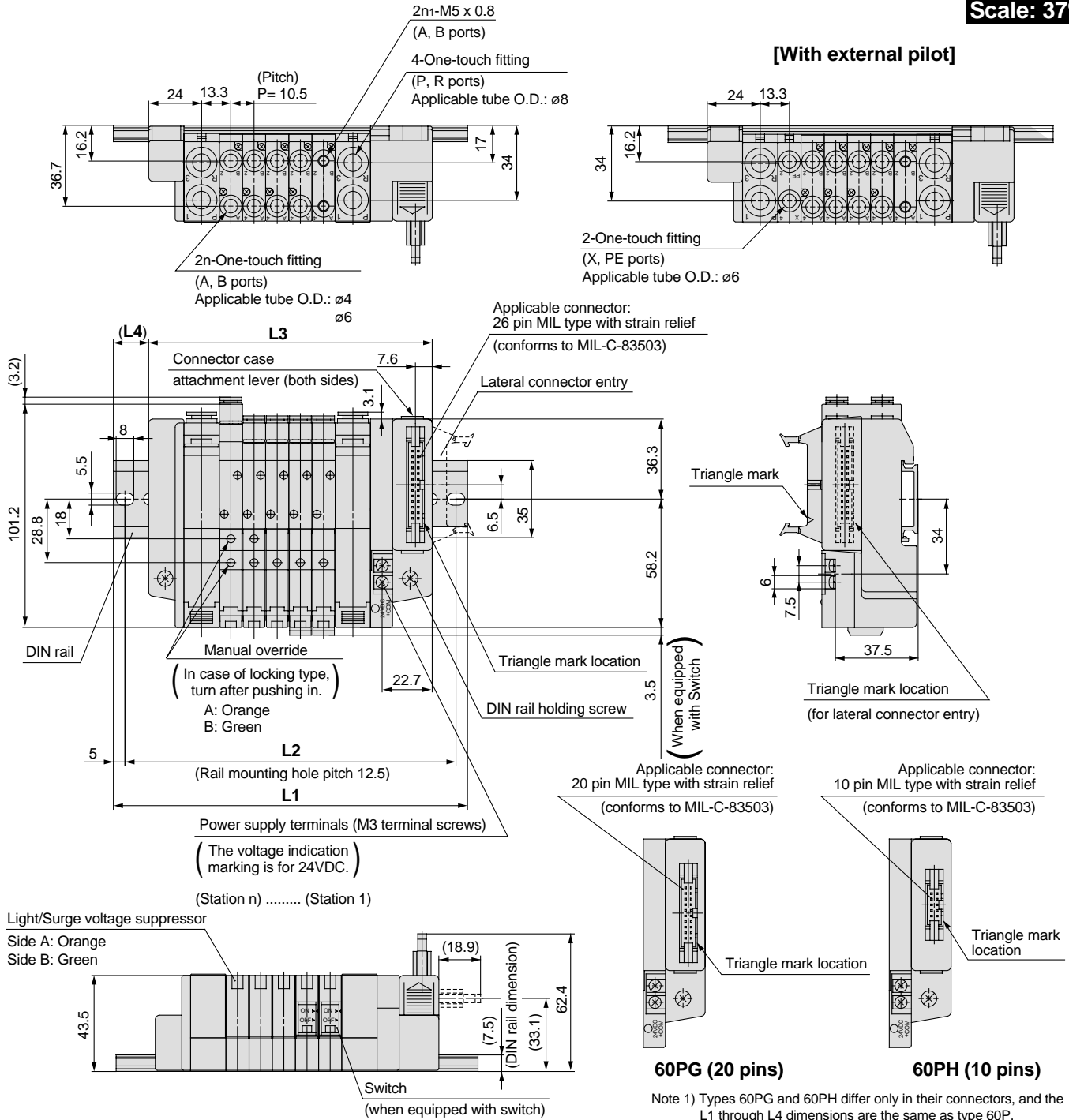
External pilot manifold		L: Dimensions									n: Stations (n ₁ + n ₂)	
L \ n	2	3	4	5	6	7	8	9	10			
L1	123	135.5	148	148	160.5	173	185.5	198	210.5			
L2	112.5	125	137.5	137.5	150	162.5	175	187.5	200			
L3	91.5	102	112.5	123	133.5	144	154.5	165	175.5			
L4	16	17	18	12.5	13.5	14.5	15.5	16.5	17.5			

Series SZ3000

Dimensions/SZ3000: Plug-in

SS5Z3-60PD $\frac{1}{2}$ - Stations B-□ (26 pins)

Scale: 37%



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

Note 2) Refer to page ①1-23 for manifold dimensions with elbow

Internal pilot manifold L: Dimensions

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	12.3

External pilot manifold L: Dimensions

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