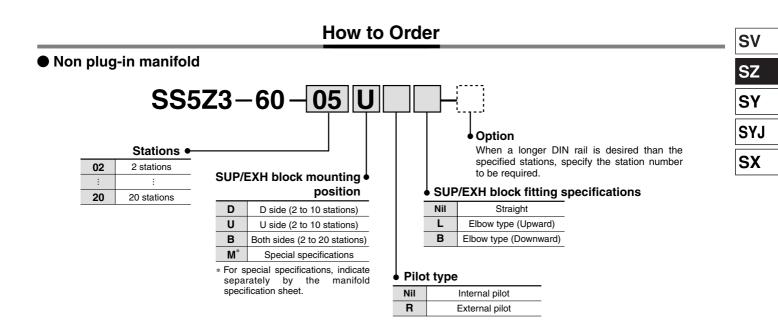
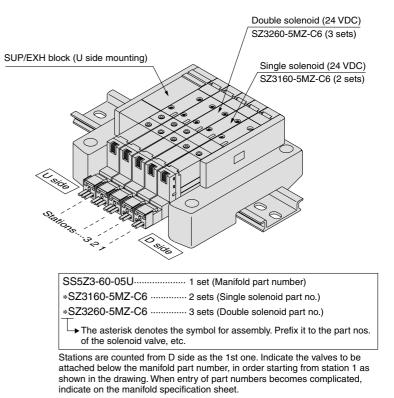


5 Port Solenoid Valve Series SZ3000 Non Plug-in Type

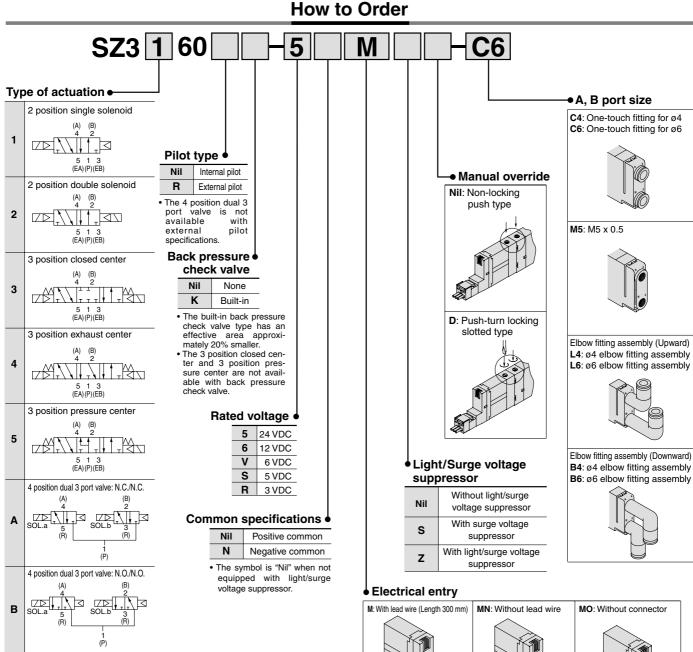


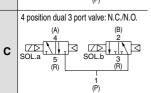
How to Order Valve Manifold Assembly

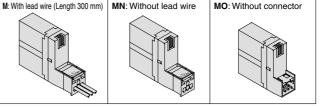
Ordering example (SZ3000, Non plug-in)



Series SZ3000







Cassette Type Manifold Non Plug-in Type Series SZ3000

Manifold Specifications





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

| | Model | | Type SS5Z3-60 | | | | | | |
|---|------------------------|-----------|---------------------------|--|--|--|--|--|--|
| Manifold | | | Non plug-in type | | | | | | |
| 1 (P: SUP), 3/5 (R: EXH) system | | | Common SUP, EXH | | | | | | |
| Valve stations | | | 2 to 20 stations | | | | | | |
| 4(A), 2(B) | port | Location | Valve | | | | | | |
| Porting spe | Porting specifications | | Lateral, Upward, Downward | | | | | | |
| Dout size | 1(P), 3/5 | i(R) port | C8 | | | | | | |
| Port size | 4(A), 2(E | 3) port | C4, C6, M5 | | | | | | |
| $ \begin{array}{l} \mbox{Weight W (g)} \ ^{(2)} \\ \left(\begin{array}{c} n: \mbox{Number of SUP/EXH blocks} \\ m: \mbox{Weight of DIN rail} \end{array} \right) \end{array} $ | | | W = 34n + m + 89 | | | | | | |



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 siz | ze | Flow characteristics | | | | | | | | | | | | |
|-------------|--------|----------------------|--------------------------------------|-------------|---|-------------|-------------|--|--|--|--|--|--|--|
| 1, 5, 3 | 4, 2 | 1 - | \rightarrow 2/4 (P \rightarrow A | /B) | $4/2 \rightarrow 3 (A/B \rightarrow R)$ | | | | | | | | | |
| (P, EA, EB) | (A, B) | C [dm3/(s·bar)] | b | Cv | C [dm3/(s·bar)] | b | Cv | | | | | | | |
| | 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] | | | | | | | |
| C8 | 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] | | | | | | | |

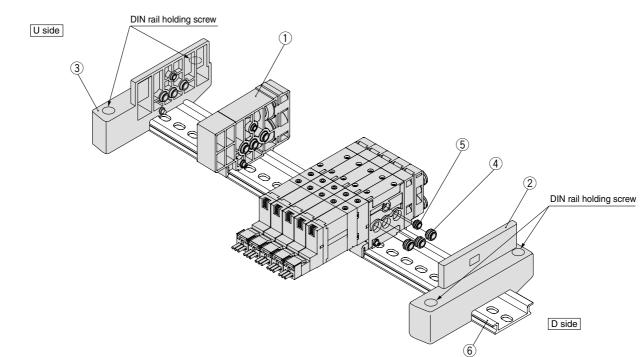


Note) • The value is for manifold base with 5 stations and individually operated 2 position type. • Values inside [] are for 4 position dual 3 port valves.

Series SZ3000

Manifold Exploded View

Type 60 (Non plug-in) manifold



Component Parts

| No. | Description | Part no. | Note |
|-----|-------------------------|-----------------|--|
| 1) | SUP/EXH block assembly | SZ3000-50-2A-⊟⊟ | 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 ø6 (Elbow fetching upward) B6: With One-touch fitting for ø8 (Elbow fetching downward) B8: With One-touch fitting for ø8 (Elbow fetching downward) |
| 2 | End block assembly | SZ3000-53-8A | D side |
| 3 | End block assembly | SZ3000-53-7A | U side |
| (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. |

Manifold Station Expansion Station expansion is possible at any position.

Loosen one DIN rail holding screw on either U side or D side.
Separate the blocks at the location where station expansion is desired.
Mount the valve on the DIN rail.

(4) While pressing the manifold together from both sides, retighten the DIN rail holding screw of the end block assembly which was loosened.

Caution (Tightening torque: 1.4 N·m)

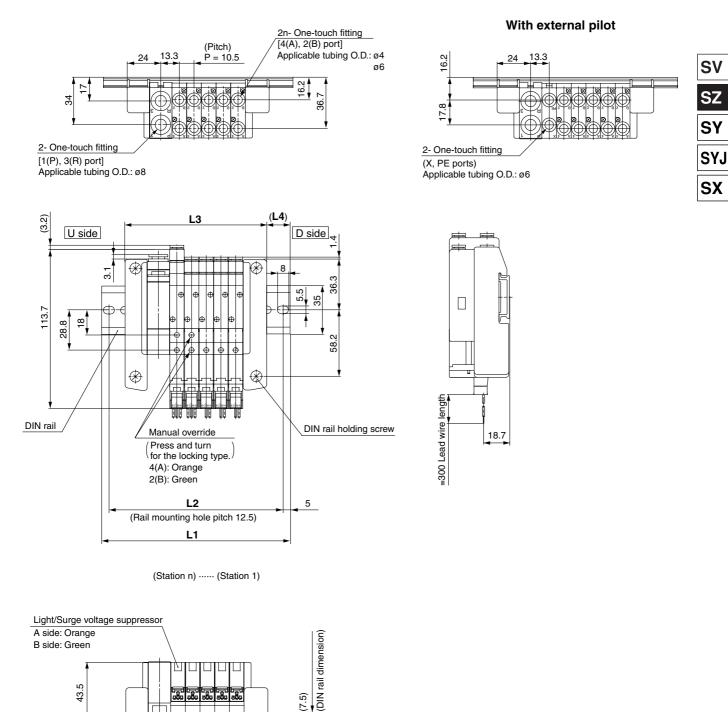
ACaution

- 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.



Dimensions: SZ3000 Non Plug-in

SS5Z3-60- Stations U



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

Internal Pilot Manifold L Dimension

| L n | 2 | 8 110.5 123 | | 5 | 6 | 7 | 8 | 9 | 10 |
|-----|------|-------------|-------|-------|-------|-------|-------|-------|-------|
| L1 | 98 | 110.5 | 123 | 135.5 | 135.5 | 148 | 160.5 | 173 | 185.5 |
| L2 | 87.5 | 100 | 112.5 | 125 | 125 | 137.5 | 150 | 162.5 | 175 |
| L3 | 70 | 80.5 | 91 | 101.5 | 112 | 122.5 | 133 | 143.5 | 154 |
| L4 | 14 | 15 | 16 | 17 | 12 | 13 | 14 | 15 | 16 |

| E | Exte | ernal l | Pilot I | Manif | old L | Dime | ensior | า | n: | n: Stations | | |
|---|----------|---------|----------|-------|-------|-------|--------|-------|-------|-------------|--|--|
| | <u> </u> | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | |
| | L1 | 110.5 | 123 | 135.5 | 135.5 | 148 | 160.5 | 173 | 185.5 | 198 | | |
| | L2 | 100 | 112.5 | 125 | 125 | 137.5 | 150 | 162.5 | 175 | 187.5 | | |
| | L3 | 80.5 | 91 | 101.5 | 112 | 122.5 | 133 | 143.5 | 154 | 164.5 | | |
| | L4 | 15 | 15 16 17 | | | 13 | 14 | 15 | 16 | 17 | | |

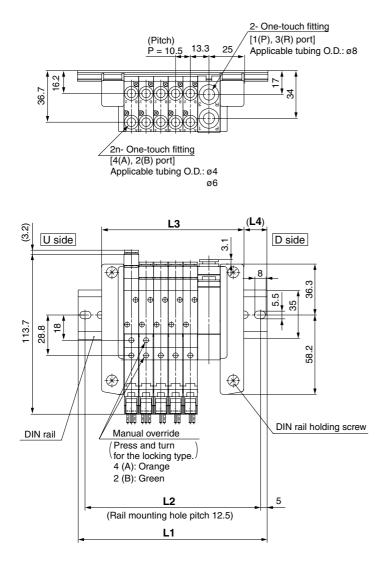


n: Stations

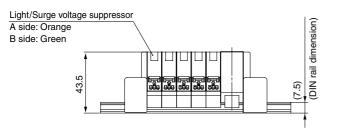
Series SZ3000

Dimensions: SZ3000 Non Plug-in

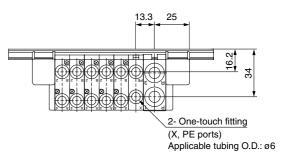
SS5Z3-60- Stations D







With external pilot



#300 Lead wire length

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

Internal Pilot Manifold L Dimension

| L | 2 | 3 | 3 4 | | 6 | 6 7 | | 9 | 10 |
|----|------|-------|-------|-------|-------|-------|-------|-------|-------|
| L1 | 98 | 110.5 | 123 | 135.5 | 135.5 | 148 | 160.5 | 173 | 185.5 |
| L2 | 87.5 | 100 | 112.5 | 125 | 125 | 137.5 | 150 | 162.5 | 175 |
| L3 | 70 | 80.5 | 91 | 101.5 | 112 | 122.5 | 133 | 143.5 | 154 |
| L4 | 14 | 15 | 16 | 17 | 12 | 13 | 14 | 15 | 16 |

| Exte | ernal | Pilot | Manif | old L | Dime | ensior | า | n: | Stations |
|----------|-------|---------------|-------|-------|-------|--------|-------|-------|----------|
| <u>L</u> | 2 | 2 3 4 5 6 7 8 | | | | | | | 10 |
| L1 | 110.5 | 123 | 135.5 | 135.5 | 148 | 160.5 | 173 | 185.5 | 198 |
| L2 | 100 | 112.5 | 125 | 125 | 137.5 | 150 | 162.5 | 175 | 187.5 |
| L3 | 80.5 | 91 | 101.5 | 112 | 122.5 | 133 | 143.5 | 154 | 164.5 |
| 14 | 15 | 16 | 17 | 12 | 13 | 14 | 15 | 16 | 17 |

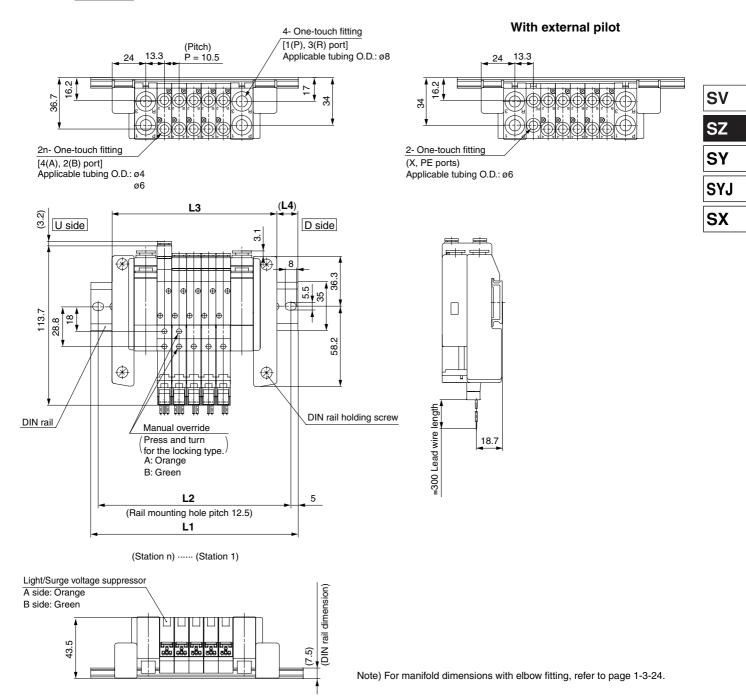


n: Stations

Cassette Type Manifold Non Plug-in Type Series SZ3000

Dimensions: SZ3000 Non Plug-in

SS5Z3-60- Stations B



Internal Pilot Manifold L Dimension

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

External Pilot Manifold L Dimension

| 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 | 235.5 | 248 | 260.5 | 273 | 285.5 | 298 | 310.5 | 310.5 |
| L2 | 112.5 | 125 | 137.5 | 150 | 162.5 | 162.5 | 175 | 187.5 | 200 | 212.5 | 225 | 225 | 237.5 | 250 | 262.5 | 275 | 287.5 | 300 | 300 |
| L3 | 96.5 | 107 | 117.5 | 128 | 138.5 | 149 | 159.5 | 170 | 180.5 | 191 | 201.5 | 212 | 222.5 | 233 | 243.5 | 254 | 264.5 | 275 | 285.5 |
| L4 | 13.5 | 14.5 | 15.5 | 16.5 | 17.5 | 12 | 13 | 14 | 15 | 16 | 17 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 12.5 |



n: Stations