

4GA/B
M4GA/B
MN4GA/B
4GA/B (mastr)
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E MN4E
W4GA/B2
W4GB4
4TB
4L2-4/ LMF0
MN3S0 MN4S0
4SA/B0
4KA/B
4KA/B (mastr)
4F
4F (mastr)
PV5G GMF
PV5 GMF
PV5S-0
3QR 3QB
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP/ NVP
4F*0EX
4F*0E
HMV HSV
2QV 3QV
SKH
PCD
Silencer
TotAirSys (Total Air)
TotAirSys (Gamma)
Ending

M4G (metal base manifold)

* Refer to page 738 for MN4G (block manifold).

Pattern 1 Expansion to position equipped with spare wiring

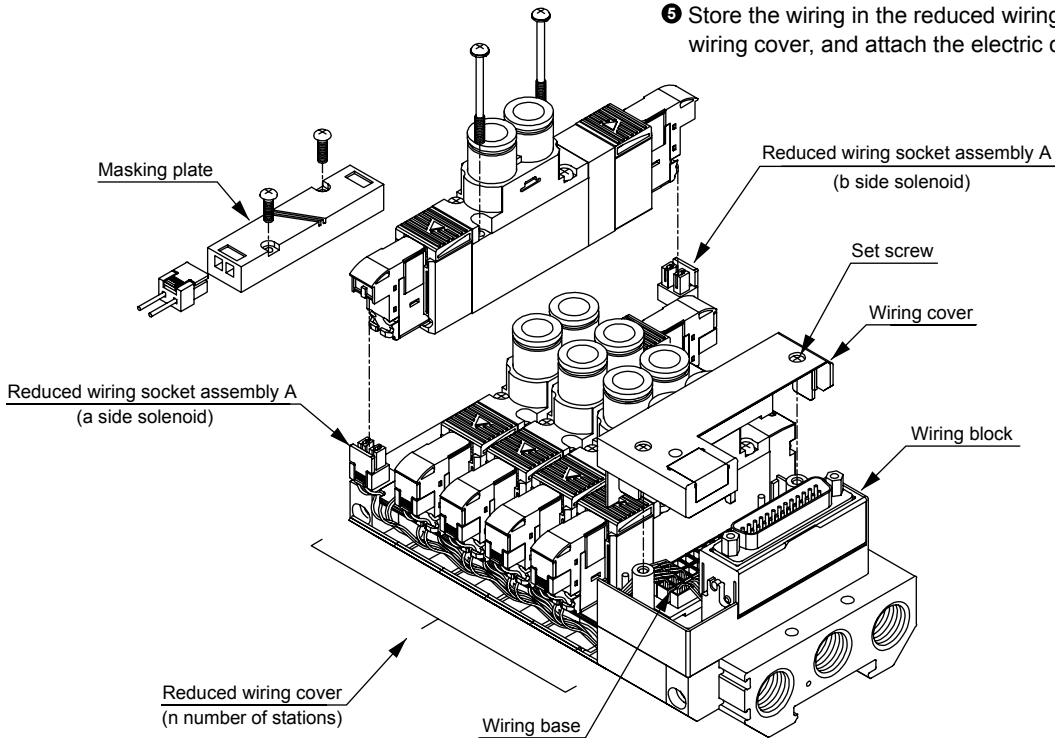
The masking plate at the planned expansion position is equipped with spare wiring in advance. For the valve expansion method with spare wiring, follow the steps below.

- 1 Remove the spare socket from the masking plate.
- 2 Remove the masking plate from the base.
- 3 Mount the valve for expansion and attach the socket.

Pattern 2 Expansion to position without spare wiring

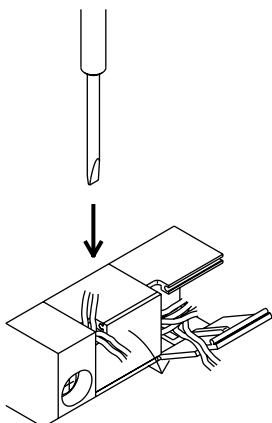
When changing the single to the double, additional internal wiring to the b side solenoid for expansion is required. For the valve expansion method without spare wiring, follow the steps below.

- 1 Remove the wiring cover and open the reduced wiring cover.
- 2 Exchange the valve at the change position. Exchange the socket for the a side solenoid.
- 3 Attach the socket for the b side solenoid (sold separately). Pass the wiring through the valve and pull it out to the a side.
- 4 Route the wire inside the wiring block and insert the connector to the wiring base.
- 5 Store the wiring in the reduced wiring cover, close the reduced wiring cover, and attach the electric cover.



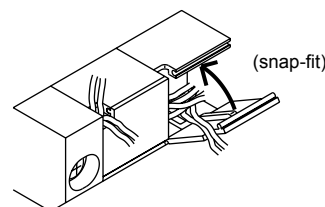
How to open and close the reduced wiring cover

How to open the reduced wiring cover



Catch the cable through hole of the reduced wiring cover with a precision screwdriver, etc., and open the cover. Do not use a pointed tool, so as not to damage the cable while catching the hole.

How to close the reduced wiring cover

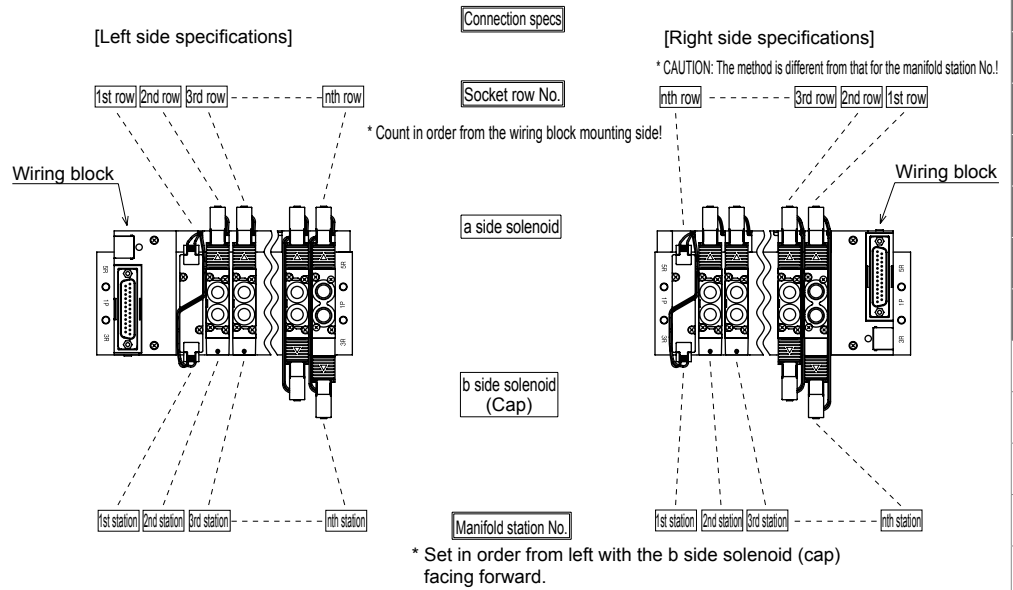


Pass the cable through the cable-through hole of the reduced wiring cover and close the cover. Avoid snagging the cable, and close the cover until it clicks into place.

Selection of model No. of socket assembly for expansion

For the socket assembly for expansion, specify a cable with appropriate length corresponding to the expansion position. Incorrect selection could cause disconnection or cable interference.

For the A type socket assembly model No., the expansion positions are set in order from the wiring block mounting side. Note that this is different from the setting method for the manifold valve station numbers, which are set in order from the left with the b side solenoid facing forward.



Note
1. T50/T51 is also the same

Model No. of socket assembly for expansion
A type connector socket assembly

4G [*1] R-SOCKET-ASSY-A [*2] [*3] - [*4]

*1 Series	*2: Connection specs	*3: Solenoid position		*4: No. of socket rows			
1	4G1	Blank	Left	A	a side	1	1st row
2	4G2	R	Right	B	b side	to	to
3	4G3					24	24th row

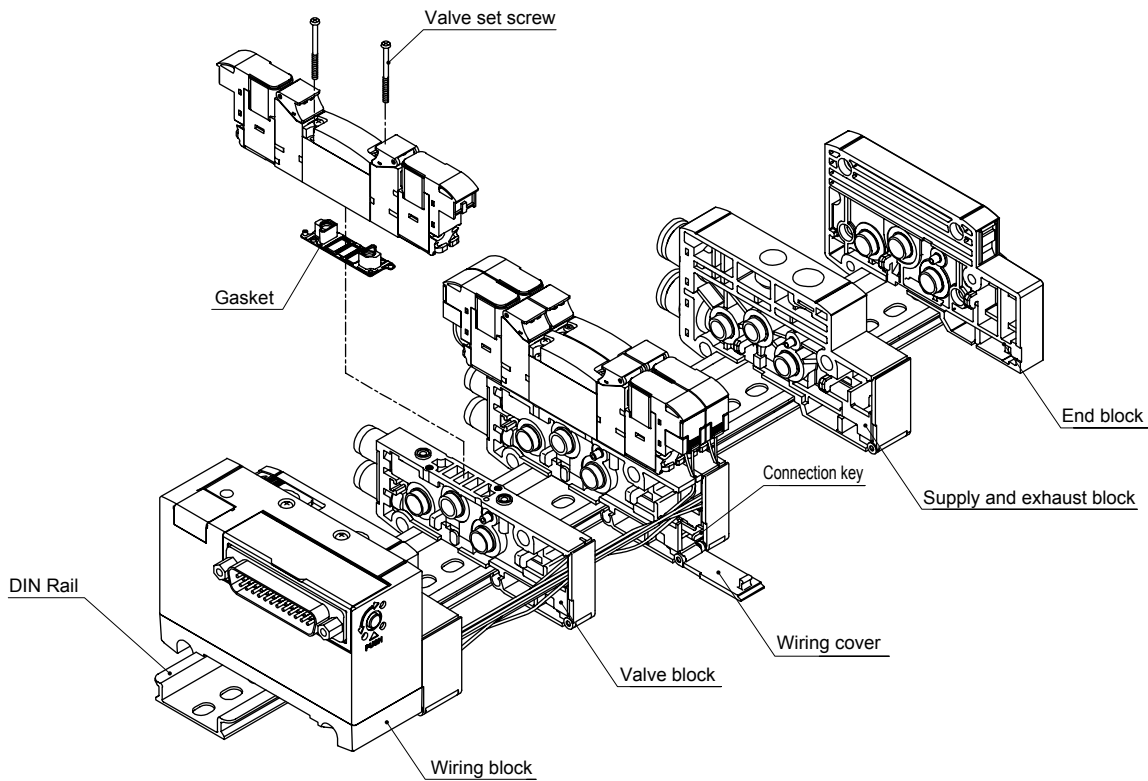
- 4GA/B
- M4GA/B
- MN4GA/B
- 4GA/B (mastr)
- 4GD/E
- M4GD/E
- MN4GD/E
- 4GA4/B4
- MN3E
- MN4E
- W4GA/B2
- W4GB4
- 4TB
- 4L2-4/LMF0
- MN3S0
- MN4S0
- 4SA/B0
- 4KA/B
- 4KA/B (mastr)
- 4F
- 4F (mastr)
- PV5G
- GMF
- PV5
- GMF
- PV5S-0
- 3QR
- 3QB
- MV3QR
- 3MA/B0
- 3PA/B
- P/M/B
- NP/NAP/NVP
- 4F*0EX
- 4F*0E
- HMV
- HSV
- 2QV
- 3QV
- SKH
- PCD
- Silencer
- TotAirSys (Total Air)
- TotAirSys (Gamma)
- Ending

4G^A_B/MN4G^A_B Series

Technical data ② How to expand reduced wiring manifold

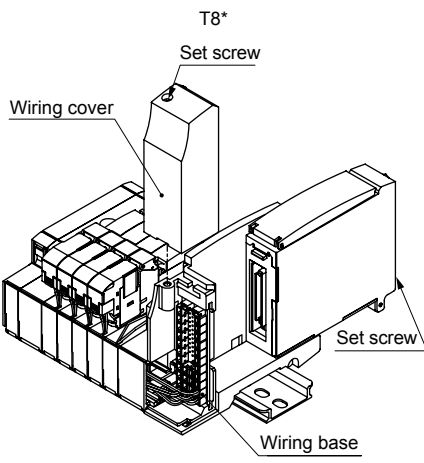
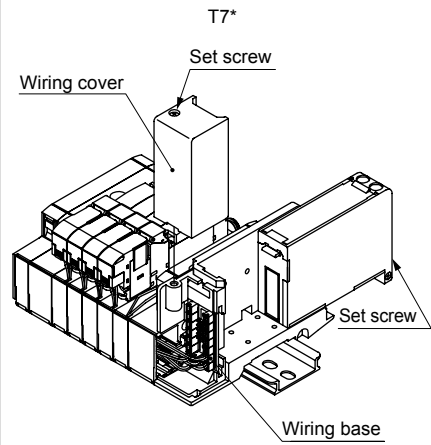
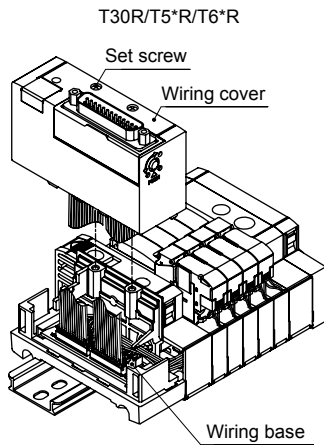
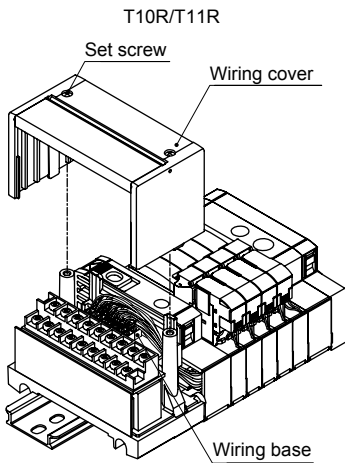
4GA/B
M4GA/B
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4GA/B (mastr)
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M4GD/E
MN4GD/E
4GA4/B4
MN3E
MN4E
W4GA/B2
W4GB4
4TB
4L2-4/
LMF0
MN3S0
MN4S0
4SA/B0
4KA/B
4KA/B (mastr)
4F
4F (mastr)
PV5G
GMF
PV5
GMF
PV5S-0
3QR
3QB
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP/
NVP
4F*0EX
4F*0E
HMV
HSV
2QV
3QV
SKH
PCD
Silencer
TotAirSys
(Total Air)
TotAirSys
(Gamma)
Ending

MN4G (exploded view of block manifold)



Example of disassembling: MN4GB1 For D sub-connector right side wiring specifications

Removing the wiring cover



Replacing valves

Removing method

- (1) Remove the socket (signal line).
- (2) Loosen the mounting screws (2 positions).
- (3) Remove the valve from the valve block.

Installation method

Follow the removal procedure in reverse.
Refer to the text at right for the recommended tightening torque for the mounting screw.
Note) The valve block differs between single wiring (V1) and double wiring (V2). Accordingly, when changing from single to double or from double to single, exchange the entire discrete valve block with solenoid valve.

Recommended tightening torque for the valve mounting screw

	Size	Recommended tightening torque (N·m)
4G1	M1.7	0.18 to 0.22
4G2	M2.5	0.35 to 0.40

Increasing the valve blocks

- ① Loosen the DIN rail fixing screw.
- ② Open the reduced wiring cover
- ③ Pull the connecting key for the position to be expanded until it clicks, and disengage the connection between blocks.
- ④ Remove the cover of the wiring block to expose the wiring base.
[Removing the wiring cover]
- ⑤ Connect the signal line (socket assembly) [*1] to the wiring base [*2], and assemble the signal line to the valve block. (Fig. 1)
*1 [Refer to Selection of model No. of socket assembly for expansion shown below]
*2 [Refer to Instructions for connection to wiring base on page 740]
- ⑥ Mount the valve block to be added to the DIN rail. (Fig. 2)
- ⑦ Press so that there is no gap between blocks, and press the key to engage.
- ⑧ With care not to catch the signal line, close the wiring cover and tighten the cover of the wiring block.
(Tightening torque: 0.35 to 0.50 N·m)
- ⑨ Press the operation button in the direction of the arrow.
Built-in DIN rail fixing bracket slides into the fixed position.
- ⑩ While holding down so that there is no gap between blocks, tighten DIN rail set screws. At this time, ensure that the position of the operation button is the fixed side.
(Recommended tightening torque: 1.2 to 1.6 N·m).
* Up to 2 stations can be expanded before the furthest position from the wiring block.

Fig. 1

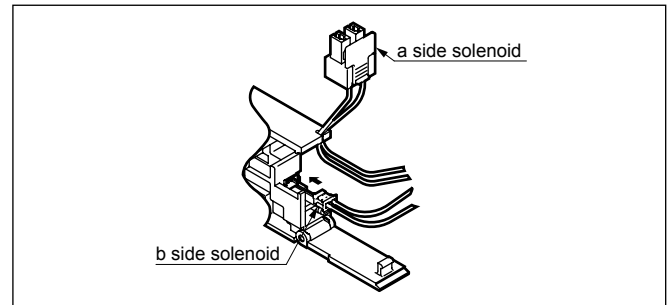
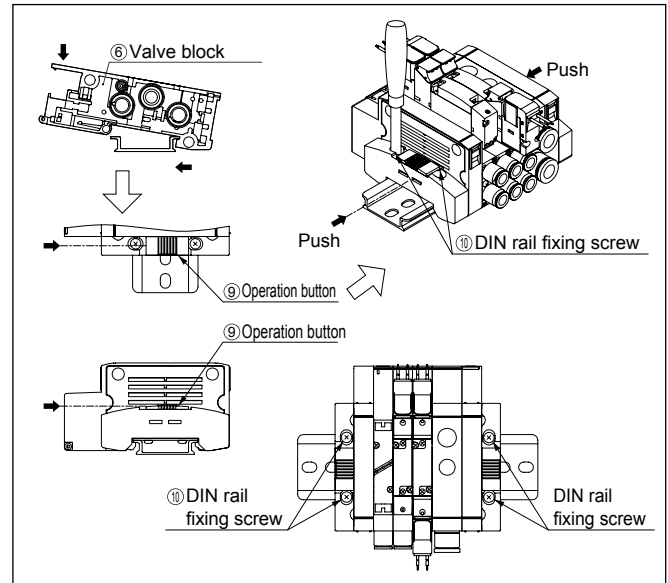


Fig. 2



Selection of model No. of socket assembly for expansion

Calculate the distance W between the expansion position and the wiring block (Fig. 3), and select an appropriate cable length from [Table 1]. Note that the required socket assembly differs between the a side solenoid and b side solenoid.

While Fig. 3 shows the wiring block with left side specifications, similarly calculate the distance W between the expansion position and the wiring block for the right side specifications.

Calculation of W

· For MN4G1

$$W=(10.5xn)+(16xm)+(10.5xl)$$

· For MN4G2

$$W=(16xn)+(18xm)+(10.5xl)$$

n: number of valve blocks m: number of supply and exhaust blocks l: number of partition blocks

· For MN4GX

Calculate W using the mix block width of 16.

[Model No. of socket assembly for expansion]

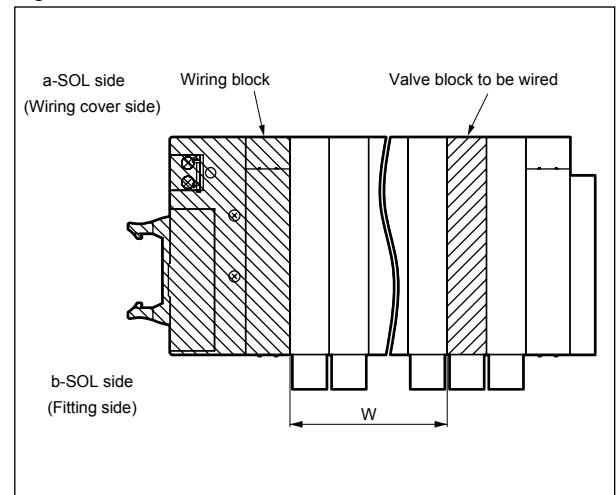
For a side solenoid

N4GR - SOCKET - ASSY - A - [Selection No.]

For b side solenoid

N4GR - RELAY - SOCKET - [Selection No.]

Fig. 3



[Table 1] W length - selection No. compatibility table

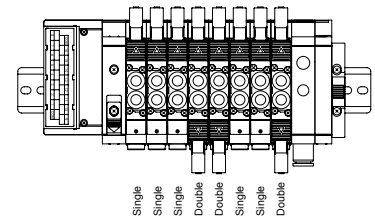
Selection No.	Type of wiring		
	T10/11(R)	T30/5*/6* (R)	T7*/T8*
2	20 or less	0	25 or less
3	Over 20 to 70	Over 0 to 30	Over 25 to 55
4	Over 70 to 120	Over 30 to 80	Over 55 to 105
5	Over 120 to 170	Over 80 to 130	Over 105 to 155
6	Over 170 to 260	Over 130 to 180	Over 155 to 205
7	Over 260 to 350	Over 180 to 270	Over 205 to 295
8	Over 350 to 450	Over 270 to 360	Over 295 to 385
9	Over 450 to 570	Over 360 to 460	Over 385 to 485
10	Over 570 to 700	Over 460 to 580	Over 485 to 605

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- 4GA/B (mastr)
- 4GD/E
- M4GD/E
- MN4GD/E
- 4GA4/B4
- MN3E
- MN4E
- W4GA/B2
- W4GB4
- 4TB
- 4L2-4/LMF0
- MN3S0
- MN4S0
- 4SA/B0
- 4KA/B
- 4KA/B (mastr)
- 4F
- 4F (mastr)
- PV5G
- GMF
- PV5
- GMF
- PV5S-0
- 3QR
- 3QB
- MV3QR
- 3MA/B0
- 3PA/B
- P/M/B
- NP/NAP/NVP
- 4F*0EX
- 4F*0E
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4GB^A/MN4GB^A Series

Technical data ② How to expand reduced wiring manifold

Ⓒ Manifold configuration (Example)



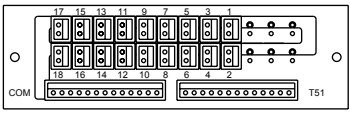
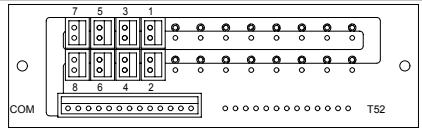
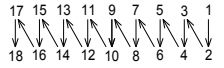

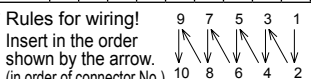
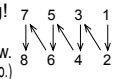
Instructions for connecting wiring base (standard wiring)

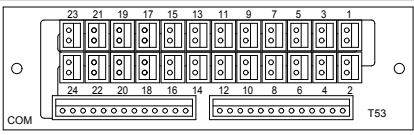
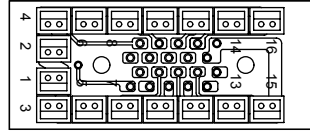
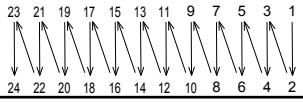
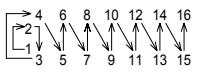

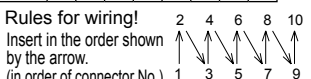
The corresponding rules for connector and valve on the wiring base vary depending on the reduced wiring specifications (T10, T11, T30, T50, T51, T52, T53, T6*, T7*, T8*). For connector wiring, check the connector No. printed on the base.

For wiring of mix (consolidation), the manifold configuration as shown in the right figure is indicated as an example.

	T10	T11																																																																																																																																																																																																																																																																								
Wiring base assembly																																																																																																																																																																																																																																																																										
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Correspondence to valve	<p>1) For single SOL only (MF station No. up to 16 stations)</p> <table border="1"> <tr><td>Term. block No.</td><td>16</td><td>15</td><td>14</td><td>13</td><td>12</td><td>11</td><td>10</td><td>9</td></tr> <tr><td>Valve No.</td><td>16a</td><td>15a</td><td>14a</td><td>13a</td><td>12a</td><td>11a</td><td>10a</td><td>9a</td></tr> <tr><td>Term. block No.</td><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td></tr> <tr><td>Valve No.</td><td>8a</td><td>7a</td><td>6a</td><td>5a</td><td>4a</td><td>3a</td><td>2a</td><td>1a</td></tr> </table> <p>2) For double SOL only (MF station No. up to 8 stations)</p> <table border="1"> <tr><td>Term. block No.</td><td>16</td><td>15</td><td>14</td><td>13</td><td>12</td><td>11</td><td>10</td><td>9</td></tr> <tr><td>Valve No.</td><td>8b</td><td>8a</td><td>7b</td><td>7a</td><td>6b</td><td>6a</td><td>5b</td><td>5a</td></tr> <tr><td>Term. block 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No.	8b	8a	7b	7a	6b	6a	5b	5a	Term. block No.	8	7	6	5	4	3	2	1	Valve No.	4b	4a	3b	3a	2b	2a	1b	1a	Term. block No.	16	15	14	13	12	11	10	9	Valve No.	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)	8b	8a	7a	Term. block No.	8	7	6	5	4	3	2	1	Valve No.	6a	5b	5a	4b	4a	3a	2a	1a	<p>1) For single SOL only (MF station No. up to 24 stations)</p> <table border="1"> <tr><td>Connector No.</td><td>24</td><td>23</td><td>22</td><td>21</td><td>20</td><td>19</td><td>18</td><td>17</td><td>16</td><td>15</td><td>14</td><td>13</td></tr> <tr><td>Valve No.</td><td>24a</td><td>23a</td><td>22a</td><td>21a</td><td>20a</td><td>19a</td><td>18a</td><td>17a</td><td>16a</td><td>15a</td><td>14a</td><td>13a</td></tr> <tr><td>Connector No.</td><td>12</td><td>11</td><td>10</td><td>9</td><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td></tr> <tr><td>Valve No.</td><td>12a</td><td>11a</td><td>10a</td><td>9a</td><td>8a</td><td>7a</td><td>6a</td><td>5a</td><td>4a</td><td>3a</td><td>2a</td><td>1a</td></tr> 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No.	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)	Connector No.	12	11	10	9	8	7	6	5	4	3	2	1	Valve No.	(Blank)	8b	8a	7a	6a	5b	5a	4b	4a	3a	2a	1a
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single SOL (MF station No. up to 16 stations)</p> <table border="1"> <tr><td>Connector No.</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr> <tr><td>Valve No.</td><td>1a</td><td>2a</td><td>3a</td><td>4a</td><td>5a</td><td>6a</td><td>7a</td><td>8a</td></tr> <tr><td>Connector No.</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td></tr> <tr><td>Valve No.</td><td>9a</td><td>10a</td><td>11a</td><td>12a</td><td>13a</td><td>14a</td><td>15a</td><td>16a</td></tr> </table> <p>2) For double SOL (MF station No. up to 8 stations)</p> <table border="1"> <tr><td>Connector No.</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr> <tr><td>Valve No.</td><td>1a</td><td>1b</td><td>2a</td><td>2b</td><td>3a</td><td>3b</td><td>4a</td><td>4b</td></tr> <tr><td>Connector No.</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td></tr> <tr><td>Valve 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No.	1	2	3	4	5	6	7	8	Valve No.	1a	2a	3a	4a	4b	5a	5b	6a	Connector No.	11	12	13	14	15	16	17	18	Valve No.	7a	8a	8b	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)
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M4GA/B
MN4GA/B
4GA/B (mastr)
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E
MN4E
W4GA/B2
W4GB4
4TB
4L2-4/LMF0
MN3S0
MN4S0
4SA/B0
4KA/B
4KA/B (mastr)
4F
4F (mastr)
PV5G
GMF
PV5
GMF
PV5S-0
3QR
3QB
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP/NVP
4F*0EX
4F*0E
HMV
HSV
2QV
3QV
SKH
PCD
Silencer
TotAirSys (Total Air)
TotAirSys (Gamma)
Ending

- 4GA/B
- M4GA/B
- MN4GA/B
- 4GA/B (mastr)
- 4GD/E
- M4GD/E
- MN4GD/E
- 4GA4/B4
- MN3E
MN4E
- W4GA/B2
- W4GB4
- 4TB
- 4L2-4/
LMF0
- MN3S0
MN4S0
- 4SA/B0
- 4KA/B
- 4KA/B (mastr)
- 4F
- 4F (mastr)
- PV5G
GMF
- PV5
GMF
- PV5S-0
- 3QR
3QB
- MV3QR
- 3MA/B0
- 3PA/B
- P/M/B
- NP/NAP/
NVP
- 4F*0EX
- 4F*0E
- HMV
HSV
- 2QV
3QV
- SKH
- PCD
- Silencer
- TotAirSys
(Total Air)
- TotAirSys
(Gamma)
- Ending

T8*

Wiring base assembly

Wire in the order shown by the arrow

Correspondence to valve

1) For single SOL only (MF station No.: up to 24 stations for MN4G1 and up to 20 stations for MN4G2)

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Valve No.	1a	2a	3a	4a	5a	6a	7a	8a	9a	10a	11a	12a	13a	14a	15a	16a
Pin No.	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Valve No.	17a	18a	19a	20a	21a	22a	23a	24a	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)

2) For double SOL only (MF station No. up to 16 stations)

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Valve No.	1a	1b	2a	2b	3a	3b	4a	4b	5a	5b	6a	6b	7a	7b	8a	8b
Pin No.	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Valve No.	9a	9b	10a	10b	11a	11b	12a	12b	13a	13b	14a	14b	15a	15b	16a	16b

3) For mix (consolidation) (solenoid No. up to 32 positions)

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Valve No.	1a	2a	3a	4a	4b	5a	5b	6a	7a	8a	8b	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)
Pin No.	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Valve No.	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)

*** Rules for wiring!**

Instructions for connecting wiring base (double wiring)

The double wiring specifications correspond to the wiring of the double solenoid, regardless of the switching position classification of the solenoid valve to be mounted. Accordingly, the double SOL only of double wiring and standard wiring have the same wiring. As an example, T53 is shown in the figure below. Refer to this example.

T53 (example)

Wiring base assembly

Wire in the order shown by the arrow

Correspondence to valve

1) For single SOL (MF station No. up to 12 stations)

Connector No.	23	21	19	17	15	13	11	9	7	5	3	1
Valve No.	12a	11a	10a	9a	8a	7a	6a	5a	4a	3a	2a	1a
Connector No.	24	22	20	18	16	14	12	10	8	6	4	2
Valve No.	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)

2) For double SOL (MF station No. up to 12 stations)

Connector No.	23	21	19	17	15	13	11	9	7	5	3	1
Valve No.	12a	11a	10a	9a	8a	7a	6a	5a	4a	3a	2a	1a
Connector No.	24	22	20	18	16	14	12	10	8	6	4	2
Valve No.	12b	11b	10b	9b	8b	7b	6b	5b	4b	3b	2b	1b

3) For mix (consolidation) (solenoid No. up to 24 positions)

Connector No.	23	21	19	17	15	13	11	9	7	5	3	1
Valve No.	(Blank)	(Blank)	(Blank)	(Blank)	8a	7a	6a	5a	4a	3a	2a	1a
Connector No.	24	22	20	18	16	14	12	10	8	6	4	2
Valve No.	(Blank)	(Blank)	(Blank)	(Blank)	8b	(Blank)	(Blank)	5b	4b	(Blank)	(Blank)	(Blank)

*** Rules for wiring!**
 Insert in the order shown by the arrow.
 (in order of connector No.)

4GA/B
M4GA/B
MN4GA/B
4GA/B (mastr)
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E
MN4E
W4GA/B2
W4GB4
4TB
4L2-4/LMF0
MN3S0
MN4S0
4SA/B0
4KA/B
4KA/B (mastr)
4F
4F (mastr)
PV5G
GMF
PV5
GMF
PV5S-0
3QR
3QB
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP/NVP
4F*0EX
4F*0E
HMV
HSV
2QV
3QV
SKH
PCD
Silencer
TotAirSys (Total Air)
TotAirSys (Gamma)
Ending