How to fill out MN3E/MN4E Series manifold specification sheet

● Example of manifold model No. (To include a dummy block, select mix manifold and write the station No. including the number of dummy blocks.)

MN 4 E0 8 0 – CX – M – T50RD2 W F – 10 – 3 – P70

Ⓐ Model No. Ⓑ Solenoid position Ⓒ Port size Ⓓ Manual operating device Ⓔ Wiring method Ⓕ Terminal/ Connector pin array Ⓖ Option Ⓗ Station No. Ⓘ Voltage Clean room specification

(For the manifold model No., refer to pages 346, 350, 362 and 366)

• Refer to the "Block configurations" (Pages 378 to 387) and select the model No.
• Complete from the left end, with the piping port facing forward, regardless of the wiring block method.

Part name	Model No.	Layout position 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	Qty.
Electrical block	N4E0-T 50R															○																						1
	N4E0-T																																					
Layout when including individual wiring			○	○																																		2
Valve block 7 mm pitch	N E00 0-																																					
	N E00 0-																																					
	N E00 0-																																					
	N E00 0-																																					
Valve block 10 mm pitch	N 3 E0 1 0- C6		○	○																																		2
	N 3 E0 1 0- C4					○																																1
	N 3 E0 2 0- C4						○			○																												2
	N 3 E0 3 0- C4											○	○	○																								3
Dummy block	N4E0-MPS																																					
	N4E0-MPD							○	○																													2
Supply and exhaust block	N4E0-Q Z- 8- S										○																											1
	N4E0-Q-8														○																							1
	N4E0-Q - - - -																																					
End block	N4E0-E L	○																																				1
	N4E0-E																																					

Mounting rail	L2=																																					Accessories
		Blank plug (for push-in fitting)																					Silencer					Push-in fitting tube remover ☐ Not required (Put a check mark)										
		ø1.8				ø3				ø4				ø6				ø8					ø6				ø8											
		ø 1.8 tube barbed threaded fitting (10 pieces in a set)																										Cable with D sub-connector										
		N4E0-JOINT-PTN2-M3								N4E0-JOINT-PTN2-M5								N4E0-JOINT-PTN2-6										N4T-CABLE-D0 -										
		Socket assembly for power supply (for individual wiring, AUX)																					Electrical block TM1 connector															
		N4E0-SOCKET- -												3M0-SOCKET-SET									N4E0-TM-CONNECTOR															
	(Write an integer multiple of 12.5.)	N4E00-SOCKET- -												N4E00-SOCKET-SET																								

Preparing the manifold specifications

● Complete from the left end, with the piping port facing forward, regardless of the electrical block method.
(Please include the model No. of the block selected from block configurations (pages 378 to 387) and instructions for the arrangement thereof.)
● Indicate the total number of blocks designated in the required quantity on the right of the table.
● Indicate the quantity for required accessories.
● Indicate the mounting rail length. (Only when requiring a length other than the standard length, write an integer multiple of 12.5.)

Obtaining the DIN rail length

Obtain the mounting rail length and pitch based on the manifold length (L_1) with the following calculation formula.
The rail length obtained here is the standard length, and does not need to be indicated in the specifications. Indicate the length in the specifications only if it is different from the standard length.

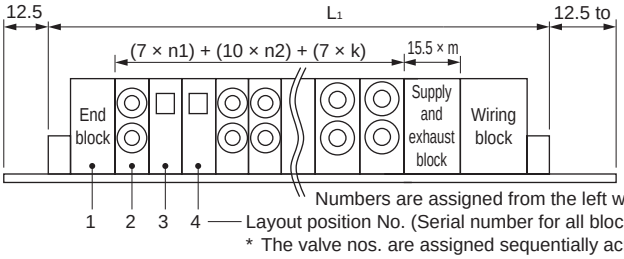
Manifold length L_1 = (7 × Valve block) + (10 × Valve block) + (7 × Dummy block) + (15.5 × Supply and exhaust block) + Electrical block (including end block) ..... Select from the right table.

Mounting rail length $L_2 = L_2' \times 12.5$

$L_2' = \frac{L_1 + 25}{12.5}$ → Round up the first decimal place. DIN rail mounting pitch $L_3 = L_2 - 12.5$

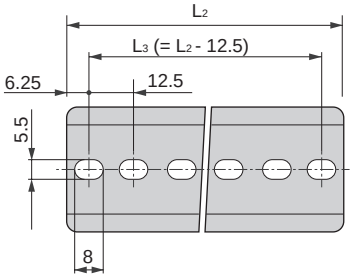
Electrical block width table

Electrical block		Dimensions (mm)
T30(N)/T30(N)R	Left or right electrical block	42.4
T5*/T5*R	Left or right electrical block	42.4
TM*	Intermediate electrical block	43.2
TM* × 2	Intermediate electrical block × 2 piece	55.2
TM* + T3*/T5*	Intermediate electrical block + left or right electrical block	54.4
T30/T5* + T30R/T5*R	Left wiring block + right electrical block	53.6
T6*	Serial transmission slave unit	115.6
T7*	Serial transmission slave unit (close contact)	73.1
T7EC*/T7EN*	Serial transmission slave unit (close contact)	86.6



n1 : Number of 7 mm wide valve blocks
n2 : Number of 10 mm wide valve blocks
m : Number of supply and exhaust blocks
k : Number of dummy blocks

Numbers are assigned from the left with the port facing forward.
1 2 3 4 —— Layout position No. (Serial number for all blocks)
* The valve nos. are assigned sequentially across the valve blocks and dummy blocks, and therefore different from the layout position nos.



MN3E/MN4E Series manifold specifications

● Contact ● Quantity set(s) ● Request date /

Slip No.	Order No.

Issue date / /
Company
Contact
Order No.

● Manifold model No. (To include a dummy block, select mix manifold and write the station No. including the number of dummy blocks.)

7/10 mm pitch mix manifold

MN ☐ EX0 – ☐ – ☐ ☐ ☐ ☐ – ☐ – ☐ (For the manifold model No., refer to page 376.)

7 mm pitch manifold

MN ☐ E00 ☐ 0 – ☐ – ☐ ☐ ☐ ☐ – ☐ – ☐ (For the manifold model No., refer to pages 346 and 350.)

10 mm pitch manifold

MN ☐ E0 ☐ 0 – ☐ – ☐ ☐ ☐ ☐ – ☐ – ☐ (For the manifold model No., refer to pages 362 and 366.)

Ⓐ Model No. Ⓑ Solenoid position Ⓒ Port size Ⓓ Manual operating device Ⓔ Wiring method Ⓕ Terminal/Connector pin array Ⓖ Option Ⓗ Station No. Ⓘ Voltage -P70 Clean room specifications

- Refer to the "Block configurations" (pages 378 to 387) and select the model No.
- Complete from the left end, with the piping port facing forward, regardless of the wiring block method.

Part name	Model No.	Layout position 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	Qty.
Electrical block	**N4E0-T ☐**																																					
	N4E0-T ☐																																					
Layout when including individual wiring																																						
Valve block 7 mm pitch	**N ☐ E00 ☐ 0- ☐**																																					
	N ☐ E00 ☐ 0- ☐																																					
	N ☐ E00 ☐ 0- ☐																																					
	N ☐ E00 ☐ 0- ☐																																					
Valve block 10 mm pitch	**N ☐ E0 ☐ 0- ☐**																																					
	N ☐ E0 ☐ 0- ☐																																					
	N ☐ E0 ☐ 0- ☐																																					
	N ☐ E0 ☐ 0- ☐																																					
Dummy block	**N4E0-MPS**																																					
	N4E0-MPD																																					
Supply and exhaust block	**N4E0-Q ☐-☐-☐-☐**																																					
	N4E0-Q ☐-☐-☐-☐																																					
	N4E0-Q ☐-☐-☐-☐																																					
End block	**N4E0-E ☐**																																					
	N4E0-E ☐																																					
Mounting rail	**L2= ☐** (Write an integer multiple of 12.5.)																																					

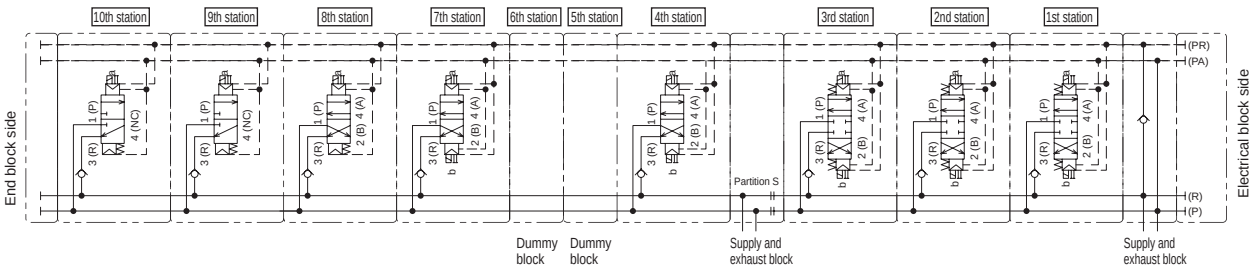
Accessories

Blank plug (for push-in fitting)										Silencer				Push-in fitting tube remover ☐ Not required (Put a check mark)
ø1.8		ø3		ø4		ø6		ø8		ø6		ø8		

ø 1.8 tube barbed threaded fitting (10 pieces in a set)						Cable with D sub-connector	
N4E0-JOINT-PTN2-M3		**N4E0-JOINT-PTN2-M5**		**N4E0-JOINT-PTN2-6**		**N4T-CABLE-D0 ☐-☐**	

Socket assembly for power supply (for individual wiring, AUX)				Electrical block TM1 connector	
N4E0-SOCKET- ☐-☐		**3M0-SOCKET-SET**		**N4E0-TM-CONNECTOR**	
N4E00-SOCKET- ☐-☐		**N4E00-SOCKET-SET**			

* The max. number of inputs of individual wiring is 16 when the T** wiring method and individual wiring are combined. Individual wiring is not available for the TX wiring method.

References circuit diagram

The circuit diagram of the manifold model No. (example) on the previous page is shown as below for reference.