MN3E/MN4E Series

How to fill out MN3E/MN4E Series manifold specifications sheet

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

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

Ⓐ Model No. Ⓑ Solenoid position Ⓒ Port size Ⓓ Adjustment function Ⓔ Manual override Ⓕ Wiring method Ⓖ Terminal/ connector pin array Ⓗ Option Ⓘ Station No. Ⓙ Voltage

· When filling in this field, select the model No. from "Block configurations" (pages 922 to 932).
· Complete from the left end, with the piping port in the front, regardless of the wiring block method.

(For the manifold model No., refer to pages 874, 878, 898 and 902)

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	Quantity
Wiring block	N4E0-T 50R															○																						1
	N4E0-T																																					
Layout when including individual wiring mix			○	○																																	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 - - - -																																				
Regulator block	N4E0-R A - FL - C8				○																																1
	N4E0-R - - -																																				
	N4E0-R - - -																																				
End block	N4E0-E L	○																																			1
	N4E0-E																																				
Mounting rail	L2=	Blanking plug (for push-in fitting) ø1.8		ø3		ø4		ø6		ø8		Silencer ø6		ø8		Push-in fitting tube remover ☐ Not required (check the box)																							Accessory
		Barbed threaded fitting for ø1.8 tube (10 pcs./set) N4E0-JOINT-PTN2-M3		N4E0-JOINT-PTN2-M5		N4E0-JOINT-PTN2-6										Cable with D sub-connector N4T-CABLE-D0 -																							
		Socket assembly for power supply (for individual wiring, AUX) N4E0-SOCKET- -			3M0-SOCKET-SET											Wiring block TM1 connector N4E0-TM-CONNECTOR																						
	(Write an integer multiple of 12.5.)	N4E00-SOCKET- -			N4E00-SOCKET-SET																																	

Preparing manifold specifications sheet

● Complete from the left end, with the piping port facing forward, regardless of the wiring block method.
(Write the block model numbers and positions you determined referring to the block configurations (pages 922 to 932).)
● Indicate the total number of blocks designated in the required quantity on the right of the table.
● Indicate the quantity of required accessories.
● Indicate the mounting rail length. (For lengths other than the standard length only, write an integer multiple of 12.5.)

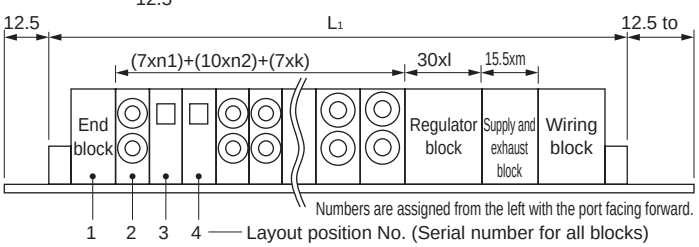
Obtaining the DIN rail length

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 when different from the standard length.

Manifold length L_1 = (7x[Valve block])+(10x[Valve block])+(7x[Dummy block])
+ (15.5 x[Supply and exhaust block])+(30 x[Regulator block]) +[Wiring block (including end block)] ……Select from the table at right.

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

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

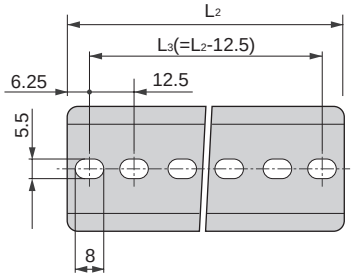


n1 : number of 7 mm wide valve blocks
n2 : number of 10mm wide valve blocks
m : number of supply and exhaust blocks
l : number of regulator blocks
k : number of dummy blocks

* The valve numbers are assigned sequentially across the valve blocks and dummy blocks, and are therefore different from the layout position numbers

Wiring block dimensions table (including end block)

Wiring block		Dimensions (mm)
T30(N)/T30(N)R	Left or right wiring block	42.4
T5*/T5*R	Left or right wiring block	42.4
TM*	Intermediate wiring block	43.2
TM*x2	Intermediate wiring block x 2 pcs	55.2
TM*+T3*/T5*	Intermediate wiring block + left or right wiring block	54.4
T30/T5*+T30R/T5*R	Left wiring block + right wiring block	53.6
T6*	Serial transmission device unit	115.6
T7*	Serial transmission device unit (close contact)	73.1
T7EC*	Serial transmission device unit (close contact)	86.6



MN3E/MN4E Series manifold specifications sheet

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

Slip No.	Order No.

Issued / /

Company

Contact

Order No.

● Manifold model No. (To include dummy blocks, 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 920)

7 mm pitch manifold

MN □ E00 □ 0 – □ – □ – □ □ □ – □ – □ (For the manifold model No., refer to pages 874 and 878)

10 mm pitch manifold

MN □ E0 □ 0 – □ – □ – □ □ □ – □ – □ (For the manifold model No., refer to pages 898 and 902)

Ⓐ Model No. Ⓑ Solenoid position Ⓒ Port size Ⓓ Adjustment function Ⓔ Manual override Ⓕ Wiring method Ⓖ Terminal/connector pin array Ⓗ Option Ⓘ Station No. Ⓙ Voltage

· When filling in this field, select the model No. from “Block configurations” (pages 922 to 932).
· Complete from the left end, with the piping port in the front, 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	Quantity
Wiring block	**N4E0-T □**		
	N4E0-T □		
Layout when including individual wiring mix			
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 □-□-□-□		
Regulator block	**N4E0-R □-□-□**		
	N4E0-R □-□-□		
	N4E0-R □-□-□		
End block	**N4E0-E □**		
	N4E0-E □		
Mounting rail	**L2= □** (Write an integer multiple of 12.5.)		

Accessory

Blanking plug (for push-in fitting)												Silencer				Push-in fitting tube remover ☐ Not required (check the box)
ø1.8		ø3		ø4		ø6		ø8		ø6		ø8				

Barbed threaded fitting for ø1.8 tube (10 pcs./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)				Wiring 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 mixed. Individual wiring is not available for the TX wiring method.

Reference circuit diagram

The circuit diagram of the manifold (example) on the previous page. Use for reference.