

MN4KB1/2 Series

How to fill out block manifold specifications sheet

● Manifold model No. (example)

MN4KB1 **1** **0A** - **HX** - **M1** **C2** - **7** - **100 VAC**

B Solenoid valve
C Port size
D Manual position
E Electrical connections
F Other options
G Solenoid valve station No.2 to 25
H Voltage

Part name	Model No.	Installation position No.																									Quantity
		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	
End block (1)	NE1	☐																									1
End block (2)	NE2										☐																1
Supply and exhaust block	NQSH 8	☐																									1
	NQUH																										
Supply block	NPSH																										
	NPUH																										
Exhaust block	NRRSH																										
	NRUH																										
Valve block with solenoid valve	N4KB1: 1 0A H 4		☐	☐	☐	☐																					4
	N4KB1: 1 0A H 6							☐	☐	☐																	3
Partition block (1) (all passages closed)	NC1																										
Partition block (2) (exhaust passages closed)	NC2																										
Silencer (for ø6 push-in)	SLW-H6																										List the number of units to be used in the field on the left
Silencer (for ø8 push-in)	SLW-H8																										
Plug (for ø4 push-in)	GWP4-B																										List the number of units to be used in the field on the left
Plug (for ø6 push-in)	GWP6-B																										
Plug (for ø8 push-in)	GWP8-B																										
Mounting rail length	L ₂ =																										Fill in L ₂ from the next page when a length other than the standard length is required.

* A simplified circuit diagram for the above specification example is shown on the next page. Use for reference.

Preparing manifold specifications sheet

- Complete from the left end, with the piping port facing forward.
(Write the block model numbers and positions you determined referring to the block configurations (pages 1336 to 1341).)
- Write the total number of blocks specified in the quantity field at the table far right.
- Indicate the mounting rail length.
(Fill in only when a length other than the standard length is required.)
- As there are manifold specifications sheets for each of the various series, fill in the form for the corresponding specifications.
 - MN4KB1 page 1346
 - MN4KB2 page 1347

MN4KB1/2 Series

4GA/B

M4GA/B

MN4GA/B

4GA/B

(master)

4GB

With sensor

4GD/E

M4GD/E

MN4GD/E

4GA4/B4

MN3E

MN4E

W4GA/B2

W4GB4

MN3S0

MN4S0

4SA/B0

4KA/B

4KA/B

(master)

4F

4F

(master)

PV5G

GMF

PV5

GMF

PV5S-0

3Q

MV3QR

3MA/B0

3PA/B

P/M/B

NP/NAP

NVP

4G*0EJ

4F*0EX

4F*0E

HNV

HSV

2QV

3QV

SKH

Silencer

TotAirSys

(Total Air)

TotAirSys

(Gamma)

Ending

How to determine the length of the manifold

● How to calculate the manifold length

$$\text{Manifold length (L}_1\text{)} = (\text{A} \times n) + (\text{B} \times m) + (\text{C} \times l) + 40$$

Valve block Supply and exhaust block Partition block

$$\text{Mounting rail length (L}_2\text{)} = L_2' \times 12.5$$

$$L_2' = \frac{L_1 + 40}{12.5} \rightarrow \text{round up to integer}$$

$$\text{Rail mounting pitch (L}_3\text{)} = L_2 - 12.5$$

n, m and l show usage per block.

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

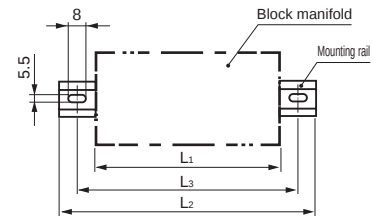
A, B, and C indicate the length (width) of each block.

Block length (width) dimensions table (mm)

		MN4KB1	MN4KB2
A	Valve block	16	19
B	Supply and exhaust block	16	20
C	Partition block	8	8

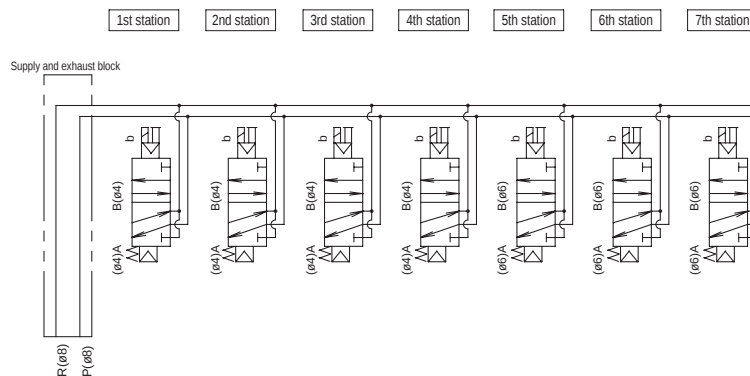
L ₁ : Manifold length	L ₂ : Rail length	L ₃ : Mounting pitch	L ₁ : Manifold length	L ₂ : Rail length	L ₃ : Mounting pitch
72.5 or less	112.5	100	Over 285	297.5 or less	337.5
Over 72.5	85 or less	125	297.5	310	350
85	97.5	137.5	310	322.5	362.5
97.5	110	150	322.5	335	375
110	122.5	162.5	335	347.5	387.5
122.5	135	175	347.5	360	400
135	147.5	187.5	360	372.5	412.5
147.5	160	200	372.5	385	425
160	172.5	212.5	385	397.5	437.5
172.5	185	225	397.5	410	450
185	197.5	237.5	410	422.5	462.5
197.5	210	250	422.5	435	475
210	222.5	262.5	435	447.5	487.5
222.5	235	275	447.5	460	500
235	247.5	287.5	460	472.5	512.5
247.5	260	300	472.5	485	525
260	272.5	312.5	485	497.5	537.5
272.5	285	325	497.5	510 *	550

* If the length exceeds 510, calculate using a multiple of 12.5.



Reference circuit diagram

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



- The manifold station numbers and installation position numbers are set in order from the left with the piping port facing forward. (The supply and exhaust blocks, partition block, and end block are not included in the manifold station No.)
- Select the model No. from block configurations (pages 1336 to 1341) and the page for model numbers of each of the specifications.

4KB2 block manifold specifications sheet

Issued / /

Company

Contact

Order No.

● Contact

● Quantity

set(s)

● Delivery date

/

Slip No.	Order No.
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● Manifold model No.

MN4KB2

	0	-		-		-		-		-	
--	---	---	--	---	--	---	--	---	--	---	--

B Solenoid valve

C Port size

D

E Electrical connections

F

G Solenoid valve station

H

Solenoid position

Manual override

Other options

Voltage

B Solenoid position		C Port size	
Code	Description	Code	Description
1	2-position single	H6	ø6 Push-in fitting
2	2-position double	H8	ø8 Push-in fitting
3	3-position all ports closed	H10	ø10 Push-in fitting
4	3-position A/B/R connection	HX	Mix/push-in fitting
5	3-position P/A/B connection		
8	Mix manifold		

D Manual override	
Code	Description
Blank	No lock manual override
M1	Locking manual override

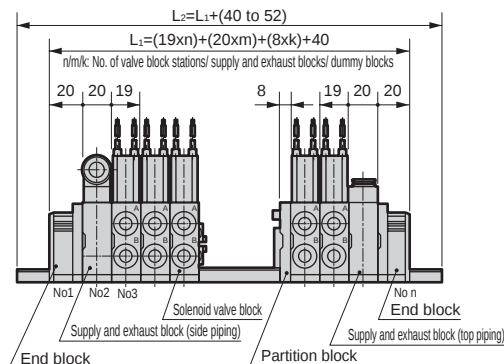
E Electrical connections		
Code	Description	Lead wire length
Blank	Grommet lead wire	300 mm
B	Compact terminal box	None
L	Compact terminal box (with indicator lamp, surge suppressor equipped)	None
LS	Compact terminal box (with surge suppressor and indicator lamp)	None
C	C-connector	300 mm
C00		500 mm
C01		1000 mm
C02		2000 mm
C03		3000 mm
C1	C-connector (with surge suppressor/ lamp)	None
C2		300 mm
C20		500 mm
C21		1000 mm
C22		2000 mm
C23		3000 mm
D	D-connector	300 mm
D00		500 mm
D01		1000 mm
D02		2000 mm
D03		3000 mm
D1	D-connector (with surge suppressor/ lamp)	None
D2		300 mm
D20		500 mm
D21		1000 mm
D22		2000 mm
D23		3000 mm
D3		None

F Other options	
Code	Description
Blank	None
S	Surge suppressor attached (grommet lead wire only)

H Voltage	
Code	Description
AC100V	100 VAC50/60 Hz
AC200V	200 VAC50/60 Hz
DC24V	24 VDC
DC12V	12 VDC
AC110V	110 VAC50/60 Hz
AC220V	220 VAC50/60 Hz

Standard

Option



When filling in this field, select the model No. from "Block configurations" (pages 1336, 1337, 1340, 1341) and specify the details in the space.

Specify the installation position numbers from the left side when viewing the figure above right. Mark instructions with a circle inside.

Part name	(Page)	Model No.	Installation position No.																							Quantity
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
End block (1)	(Page 1340)	2NE1	○																							
End block (2)	(Page 1340)	2NE2																								
Supply and exhaust block	(Page 1340)	2NQSH																								
		2NQUH																								
Supply block	(Page 1340)	2NPSH																								
		2NPUH																								
Exhaust block	(Page 1340)	2NRSH																								
		2NRUH																								
Valve block with solenoid valve	(Page 1337)	N4KB2																								
		N4KB2																								
Partition block (1) (all passages closed)	(Page 1341)	2NC1																								
Partition block (2) (exhaust passages closed)	(Page 1341)	2NC2																								
Silencer (for ø8 push-in)	(Page 1341)	SLW-H8																								
Silencer (for ø10 push-in)	(Page 1341)	SLW-H10																								
Silencer (for ø12 push-in)	(Page 1341)	SLW-H12																								
Plug (for ø6 push-in)	(Page 1341)	GWP6-B																								
Plug (for ø8 push-in)	(Page 1341)	GWP8-B																								
Plug (for ø10 push-in)	(Page 1341)	GWP10-B																								
Plug (for ø12 push-in)	(Page 1341)	GWP12-B																								
Mounting rail length (How to determine the length: page 1345)		L2=																								

Mark instructions inside

4GA/B

M4GA/B

MN4GA/B

4GA/B (master)

4GB

With sensor

4GD/E

M4GD/E

MN4GD/E

4GA4/B4

MN3E

MN4E

W4GA/B2

W4GB4

MN3S0

MN4S0

4SA/B0

4KA/B

4KA/B (master)

4F

4F (master)

PV5G

GMF

PV5

GMF

PV5S-0

3Q

MV3QR

3MA/B0

3PA/B

P/M/B

NP/NAP

NVP

4G*0EJ

4F*0EX

4F*0E

HNV

HSV

2QV

3QV

SKH

Silencer

TotAirSys

(Total Air)

TotAirSys

(Gamma)

Ending