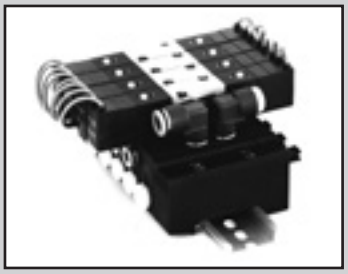


Block manifold sub-plate piping
Pilot operated 5-port pneumatic valve

MN4KB1/2 Series

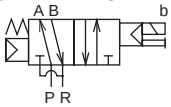
● Cylinder bore size: ø20 to ø80

CE Refer to the Ending for details.

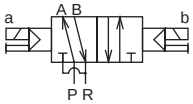
RoHS CAD

JIS symbol

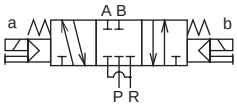
● 5-port valve
2-position single



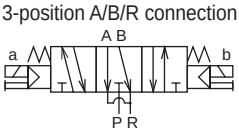
● 5-port valve
2-position double



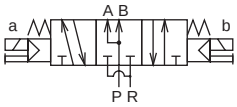
● 5-port valve
3-position all ports closed



● 5-port valve
3-position A/B/R connection



● 5-port valve
3-position P/A/B connection



Common specifications

Item	Description
Manifold method	Block manifold system (DIN rail mount)
Manifold (*1)	Common air supply (P) Common exhaust (R)
Station No.	2 to 25 stations
Valve and operation	Pilot operated soft spool valve
Working fluid	Compressed air
Max. working pressure MPa	0.70 (≈100 psi, 7 bar)
Min. working pressure MPa	Refer to Individual specifications listed below
Proof pressure MPa	1.05 (≈150 psi, 10.5 bar)
Ambient temperature °C	5 (41°F) to 50 (122°F)
Fluid temperature °C	5 (41°F) to 50 (122°F)
Lubrication	Not required
Degree of protection	Dust-proof
Vibration resistance m/s^2	50 or less
Shock resistance m/s^2	300 or less
Atmosphere	Cannot be used in corrosive gas environment.

*1: Configured with a pilot common exhaust. (However, with the exception of the pilot exhaust for 3-position.)

Electrical specifications

Item			4KB1/2
Rated voltage V	AC		100,200 (50 / 60 Hz)
	DC		24
Voltage fluctuation range			±10%
Starting current A	AC	100 V	0.056/0.044
	AC	200 V	0.028/0.022
Holding current A	AC	100 V	0.028/0.022
	AC	200 V	0.014/0.011
	DC	24 V	0.075
Power consumption W	AC	100 V	1.8 / 1.4 (1.8 / 1.5)
	AC	200 V	1.8 / 1.4 (1.8 / 1.5)
( ): With indicator	DC	24 V	1.8 (2.0)
Thermal class			B (molded coil)
Temperature rise °C			43

Reference: Rated 100 VAC 50/60 Hz can be used with 110 VAC 60 Hz and 200 VAC 50/60 Hz can be used with 220 VAC 60 Hz.

Individual specifications

Item			4KB1	4KB2
Min. working pressure MPa	2-position	Single	0.15 (≈22 psi, 1.5 bar)	0.15 (≈22 psi, 1.5 bar)
		Double		0.10 (≈15 psi, 1 bar)
	3-position	All ports closed	0.20 (≈29 psi, 2 bar)	0.20 (≈29 psi, 2 bar)
		A/B/R connection		
		P/A/B connection		
Port size	Cylinder port A/B		ø4/ø6/ø8 Push-in fitting	ø6/ø8/ø10 Push-in fitting
	Supply/exhaust port P/R		ø6/ø8 Push-in fitting	ø8/ø10/ø12 Push-in fitting
	Pilot exhaust port PR		ø6/ø8 Push-in fitting	-

Performance/characteristics by model

Item		4KB1	4KB2
Response time (*1) ms	2-position	30 or less	30 or less
	3-position	60 or less	60 or less

*1: The response time is the value at 0.5 MPa working pressure, with no lubrication, and with the power ON. It depends on the pressure and the lubricant quality.

Weight

Item			4KB1	4KB2
Weight g (solenoid valve only)	2-position	Single	70	115
		Double	110	155
	3-position		120	170
End block g			54.3	62.3
Supply and exhaust block g			59.2	106.6
Valve block g			29.7	51.5
Partition block g			11.6	19.3

Flow characteristics

Model No.	Solenoid position		C[dm³/(s·bar)]	b
4KB1	2-position	Single	0.70	0.32
		Double		
	3-position	All ports closed	0.60	0.27
		A/B/R connection	0.80	0.21
		P/A/B connection	0.64	0.27
4KB2	2-position	Single	2.6	0.30
		Double		
	3-position	All ports closed	2.4	0.31
		A/B/R connection	3.1	0.27
		P/A/B connection	2.3	0.25

*1: Effective cross-sectional area S and sonic conductance C are converted as S ≈ 5.0 × C.

Ozone-proof specifications

(Ending Page 5)

** - Voltage - **P11**

Copper and PTFE free specifications

● Copper- and PTFE-based materials are not used in the flow path.

** - Voltage - **P6**

CE marking specifications

** - Voltage - **ST**

• Standard voltage of 24 VDC or less is CE marking-compatible even if the model No. is not indicated with "ST".

MN4KB1/2 Series

Block manifold; sub-plate piping

How to order

● Single solenoid valve for block manifold

N 4KB1 1 9 A - 00 - M1 B ○ —— AC100V * Gasket/mounting screw attached

N 4KB2 1 9 —— 00 - M1 B ○ —— AC100V * Gasket/mounting screw attached

● Block manifold

MN 4KB1 1 0 A - H6 - M1 B ○ - 5 - AC100V - 2 3 0 0 0 * Be sure to fill in the "manifold specifications sheet" (pages 1346, 1347).

MN 4KB2 1 0 —— H6 - M1 B ○ - 5 - AC100V - 2 3 0 0 0

Ⓐ Model No.

Ⓑ Solenoid position

Ⓒ Port size

Ⓓ Manual override

Ⓔ Electrical connections

* Refer to page 1263 for the circuit diagram with surge suppressor/lamp.

Ⓕ Other options

Ⓖ Station No.

Ⓗ Voltage

Code		Description	Ⓐ Model No. 4KB1	4KB2
Ⓑ Solenoid position	1	2-position single	●	●
	2	2-position double	●	●
	3	3-position all ports closed	●	●
	4	3-position A/B/R connection	●	●
	5	3-position P/A/B connection	●	●
	8	Mix manifold (*1) (when there are multiple solenoid positions)	●	●
Ⓒ Port size	H4	ø4 push-in fitting	●	
	H6	ø6 push-in fitting	●	●
	H8	ø8 push-in fitting	●	●
	H10	ø10 Push-in fitting		●
	HX	Mix/push-in fitting	●	●
Ⓓ	Blank	Non-locking manual override	●	●
	M1	Locking manual override	●	●
Ⓔ Electrical connections		Grommet lead wire		
	Blank	Grommet lead wire (300 mm)	●	●
		Compact terminal box		
	B	Without lead wire	●	●
	L	Without lead wire — Refer to [Table 1] at left for details. (*2)		
	LS	No lead wire, with surge suppressor/lamp		
		C-connector (lead wire lateral direction)		
	C	Lead wire length (300 mm)	●	●
	C00	Lead wire length (500 mm)	●	●
	C01	Lead wire length (1000 mm)	●	●
	C02	Lead wire length (2000 mm)	●	●
	C03	Lead wire length (3000 mm)	●	●
	C1	Without lead wire	●	●
	C2	Lead wire (300 mm), surge suppressor, indicator lamp	●	●
	C20	Lead wire (500 mm), surge suppressor, indicator lamp	●	●
	C21	Lead wire (1000 mm), surge suppressor, indicator lamp	●	●
	C22	Lead wire (2000 mm), surge suppressor, indicator lamp	●	●
	C23	Lead wire (3000 mm), surge suppressor, indicator lamp	●	●
	C3	No lead wire, with surge suppressor/indicator lamp	●	●
		D-connector (lead wire upward direction)		
	D	Lead wire length (300 mm)	●	●
	D00	Lead wire length (500 mm)	●	●
	D01	Lead wire length (1000 mm)	●	●
	D02	Lead wire length (2000 mm)	●	●
	D03	Lead wire length (3000 mm)	●	●
	D1	Without lead wire	●	●
	D2	Lead wire (300 mm), surge suppressor, indicator lamp	●	●
	D20	Lead wire (500 mm), surge suppressor, indicator lamp	●	●
	D21	Lead wire (1000 mm), surge suppressor, indicator lamp	●	●
	D22	Lead wire (2000 mm), surge suppressor, indicator lamp	●	●
	D23	Lead wire (3000 mm), surge suppressor, indicator lamp	●	●
	D3	No lead wire, with surge suppressor/indicator lamp	●	●
Ⓕ	Blank	No option	●	●
	S	Surge suppressor attached (*3) (*4)	●	●
	-A	Coolant supported (packing: FKM)	●	●
Ⓖ	2	2 stations	●	●
	to	to	●	●
	25	25 stations	●	●
Ⓗ Voltage	AC100V	Standard — 100 VAC 50/60 Hz	●	●
	AC200V	Standard — 200 VAC 50/60 Hz	●	●
	DC24V	Standard — 24 VDC	●	●
	DC12V	Option — 12 VDC	●	●
	AC110V	Option — 110 VAC 50/60 Hz	●	●
	AC220V	Option — 220 VAC 50/60 Hz	●	●
* Other custom order products				
AC24V			●	●
AC115V			●	●
AC120V			●	●

[Table 1] Compact terminal box L/LS compatibility table

Code	Description			4KB1	4KB2	Surge suppressor
L	Without lead wire	With indicator lamp	AC	●	●	
			DC			
		Surge suppressor, indicator lamp	AC			
			DC	●	●	Integrated
LS	Without lead wire	Surge suppressor, indicator lamp	AC	●	●	Integrated
			DC			Integrated

⚠ Precautions for model No. selection

Note Be sure to fill in the "block manifold specifications sheet" on pages 1346, 1347.

*1: When the solenoid position is mixed (8), indicate the descriptions of the combination at the end of the model No. Refer to the following page.

*2: The DC voltage models of the compact terminal box "L" of 4KB1, 4KB2 are equipped with a surge suppressor.

*3: The surge suppressor for attachment is a suppression connector when the grommet lead wire is 24 VDC or less.

*4: The surge suppressor can only be selected when the grommet lead wire or compact terminal box "B" has been selected for the electrical connections.

[Example of model No.]

MN4KB210-H6-M1B-2-AC100V

Ⓐ Model : MN4KB2
Ⓑ Solenoid position : 2-position single
Ⓒ Port size : ø6 Push-in fitting
Ⓓ Manual override : Locking manual override
Ⓔ Electrical connections : Compact terminal box/without lead wire
Ⓕ Other options : None
Ⓖ Station No. : 2 stations
Ⓗ Voltage : 100 VAC50/60 Hz

[Mix manifold]

● How to list combination contents
When selecting a combination manifold (listing 8 in Ⓑ), list the quantity used for each function of single solenoid valves after the normal model No. display.
In addition, list the code for required functions (refer to table below) and the arrangement No. (numbering up to specified station No. with left side as 1) after the model No. as shown in the example.

Code	Function
S1	2-position single
S2	2-position double
S3	3-position all ports closed
S4	3-position A/B/R connection
S5	3-position P/A/B connection

● With a mix manifold, when using 10 or more actuators of the same model No., specify using the codes in the table below.

Actuator quantity	10	11	12	13	14	15	16	17	18	19
Code	A	B	C	D	E	F	G	H	I	J

How to order masking plate kit

MN 4KB180 A -MP-KIT- S

* Gasket/mounting screw attached

List only for 4KB180

Ⓐ Model No.

Ⓑ Type

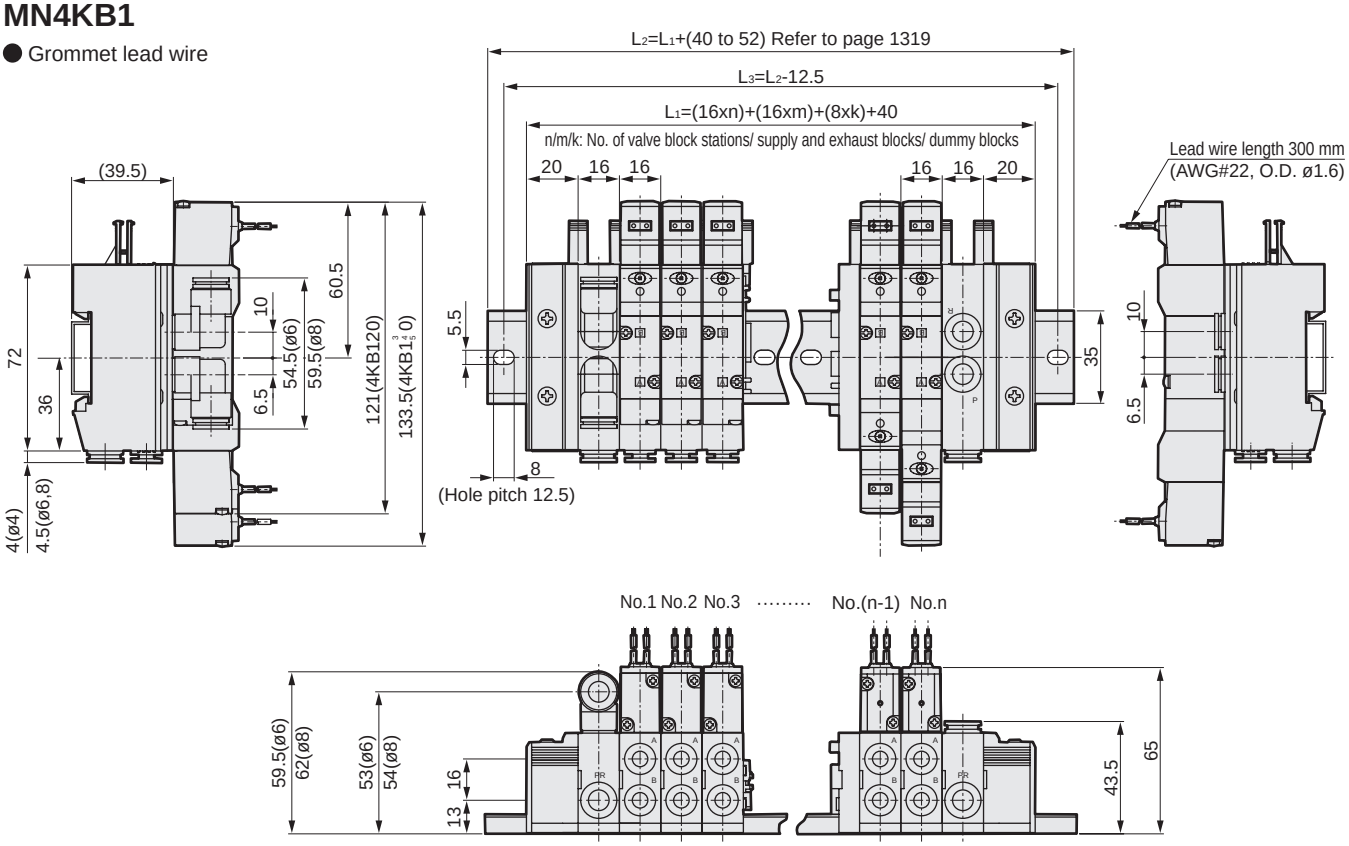
Ⓐ Model No.
4KB180
4KB280

Ⓑ Type	
S	For single solenoid
D	For double solenoid, 3-position

Dimensions CAD

MN4KB1

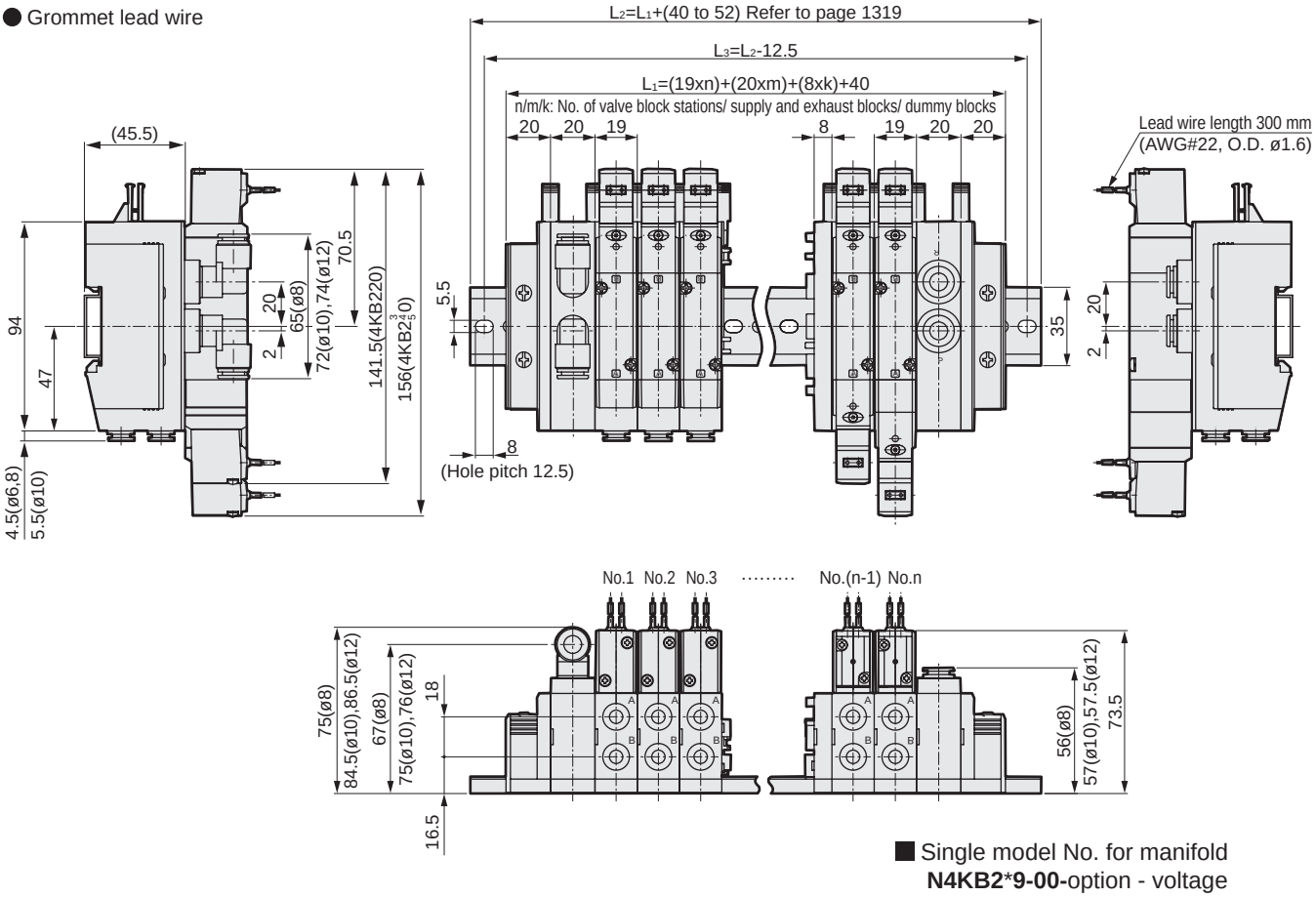
● Grommet lead wire



■ Single model No. for manifold
N4KB1*9A-00- option - voltage

MN4KB2

● Grommet lead wire



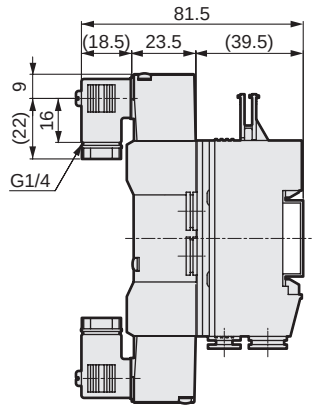
■ Single model No. for manifold
N4KB2*9-00-option - voltage

Dimensions

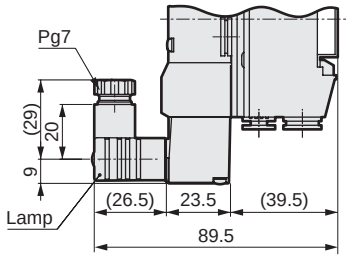
MN4KB1

● Compact terminal box: (B/L/LS)

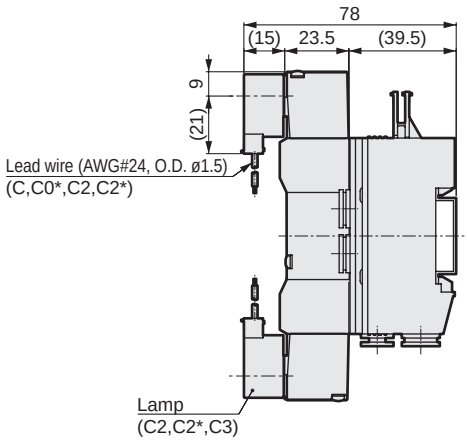
Without indicator lamp



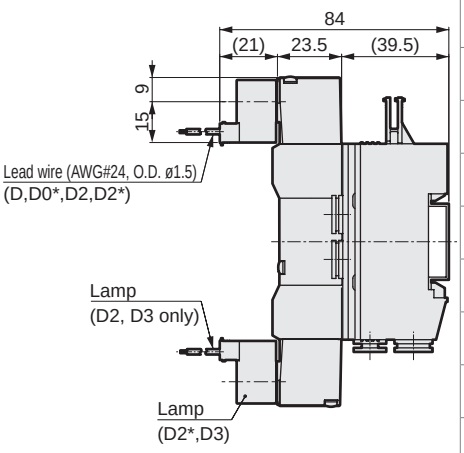
With indicator lamp



● C-connector:
(C/C1/C0*/C2/C2*/C3)



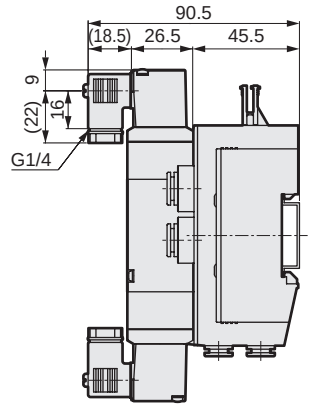
● D-connector:
(D/D1/D0*/D2/D2*/D3)



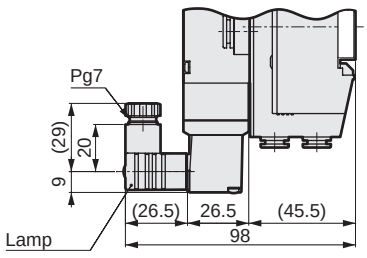
MN4KB2

● Compact terminal box: (B/L/LS)

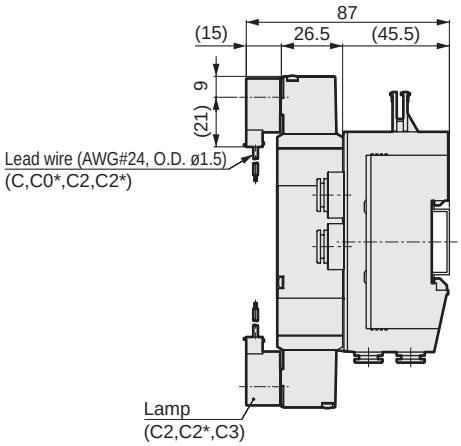
Without indicator lamp



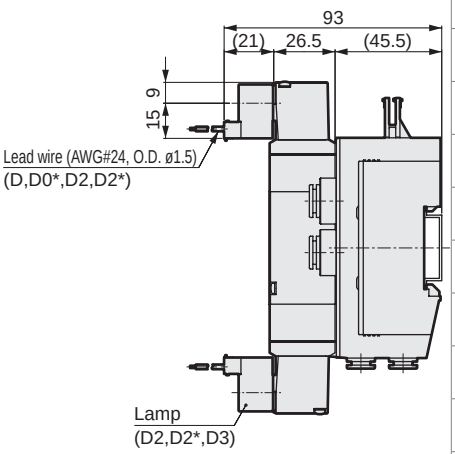
With indicator lamp



● C-connector:
(C/C1/C0*/C2/C2*/C3)



● D-connector:
(D/D1/D0*/D2/D2*/D3)



As units can be freely assembled, it is easy to change the number of stations, perform maintenance, etc.

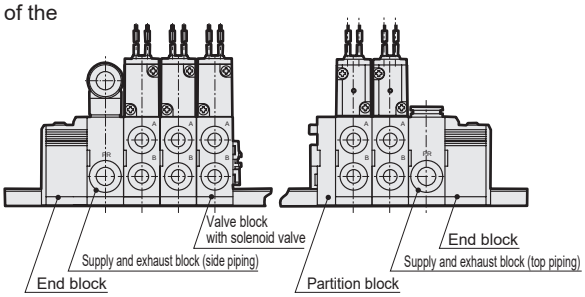
● **Valve block with solenoid valve**
The types of solenoid valve required will be arranged on a DIN rail at the number of stations required.

● **Supply and exhaust/supply/exhaust blocks**
Units can be freely arranged at the adjacent parts of each valve block.
However, the supply and exhaust block is basically arranged on the right side of the valve block when the A/B ports are facing forward.
In addition the supply and exhaust/exhaust block H12 alone cannot be arranged between valve blocks.
Supply/exhaust blocks can be added as necessary.

● **End block**
One each must be arranged on both sides of the valve block and supply and exhaust block.

● **Mounting rail**
The mounting rail will require 40 to 52.5 mm space for installation.

Configuration image

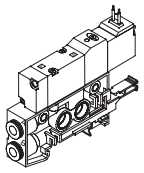


Block manifold configuration

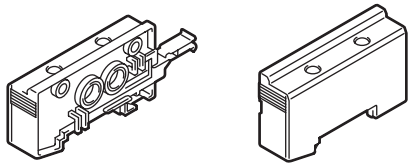
Piping

Piping block

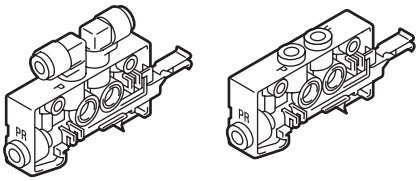
Ⓐ Discrete valve block with solenoid valve



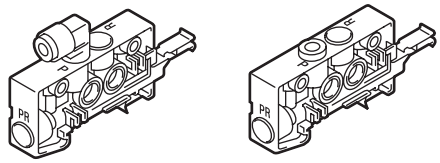
Ⓑ End block



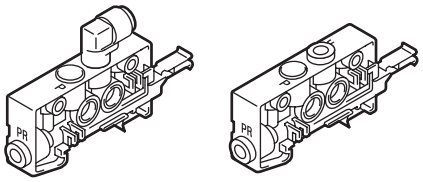
Ⓒ Supply and exhaust block



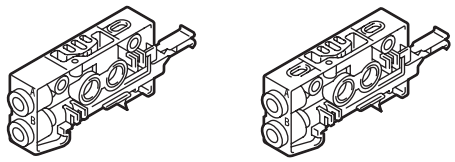
Ⓓ Supply block



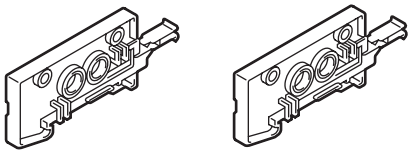
Ⓔ Exhaust block



Ⓕ Discrete valve block



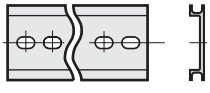
Ⓖ Partition block



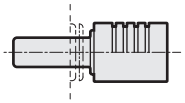
Related products

Related products

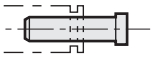
Ⓗ Mounting rail



Ⓗ Silencer

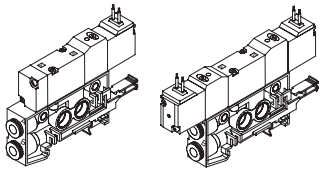


Ⓗ Blanking plug



Ⓐ Discrete valve block with solenoid valve (N4KB1)

This type is a set version of the solenoid valve 4KB1 Series.



N4KB1 [Ⓐ] [Ⓑ] 0A – [Ⓒ] [Ⓓ] [Ⓔ] – [Ⓕ]

Ⓑ: Solenoid valve operation classification

Ⓐ Solenoid valve switching class

Code	Description
1	2-position single
2	2-position double
3	3-position all ports closed
4	3-position ABR connection
5	3-position PAB connection

Ⓑ Port size

Code	Description
H4	ø4 push-in fitting
H6	ø6 push-in fitting
H8	ø8 push-in fitting

Ⓒ Manual override

Code	Description
Blank	No lock manual override
M1	Locking manual override

Ⓓ Display/protection circuit

Code	Description	Lead wire length
Blank	Grommet lead wire	300 mm
B	Compact terminal box	None
L	Compact terminal box (with lamp)	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		None
C2	C-connector (with surge suppressor and indicator lamp)	300 mm
C20		500 mm
C21		1000 mm
C22		2000 mm
C23		3000 mm
C3		None
D	D-connector	300 mm
D00		500 mm
D01		1000 mm
D02		2000 mm
D03		3000 mm
D1		None
D2	D-connector (with surge suppressor and indicator lamp)	300 mm
D20		500 mm
D21		1000 mm
D22		2000 mm
D23		3000 mm
D3		None

Ⓔ Other options

Code	Description
Blank	None
S	Surge suppressor attached

● The surge suppressor for attachment is a suppression connector for 24 VDC or less.

Ⓕ Voltage

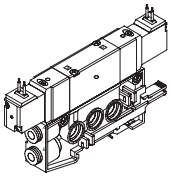
Code	Description	
AC100V	100 VAC 50/60 Hz	Standard
AC200V	200 VAC 50/60 Hz	
DC24V	24 VDC	
AC110V	110 VAC 50/60 Hz	Option
AC220V	220 VAC 50/60 Hz	
DC12V	12 VDC	

● 100/200 VAC coil is available for 110/220 VAC (60 Hz).

* With DC voltage, L is equipped with a surge suppressor

Ⓐ Discrete valve block with solenoid valve (N4KB2)

This type is a set version of the solenoid valve 4KB2 Series.



N4KB2 [Ⓐ] [Ⓑ] 0 – [Ⓒ] [Ⓓ] [Ⓔ] – [Ⓕ]

Ⓑ: Solenoid valve operation classification

Ⓐ Solenoid valve switching class

Code	Description
1	2-position single
2	2-position double
3	3-position all ports closed
4	3-position ABR connection
5	3-position PAB connection

Ⓑ Port size

Code	Description
H6	ø6 push-in fitting
H8	ø8 push-in fitting
H10	ø10 push-in fitting

Ⓒ Manual override

Code	Description
Blank	No lock manual override
M1	Locking manual override

Ⓓ Display/protection circuit

Code	Description	Lead wire length
Blank	Grommet lead wire	300 mm
B	Compact terminal box	None
L	Compact terminal box (with lamp)	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		None
C2	C-connector (with surge suppressor and indicator lamp)	300 mm
C20		500 mm
C21		1000 mm
C22		2000 mm
C23		3000 mm
C3		None
D	D-connector	300 mm
D00		500 mm
D01		1000 mm
D02		2000 mm
D03		3000 mm
D1		None
D2	D-connector (with surge suppressor and indicator lamp)	300 mm
D20		500 mm
D21		1000 mm
D22		2000 mm
D23		3000 mm
D3		None

Ⓔ Other options

Code	Description
Blank	None
S	Surge suppressor attached

● The surge suppressor for attachment is a suppression connector for 24 VDC or less.

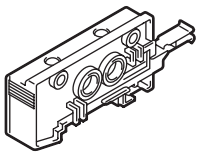
Ⓕ Voltage

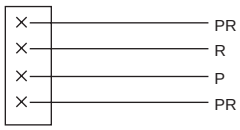
Code	Description	
AC100V	AC100V 50/60 Hz	Standard
AC200V	AC200V 50/60 Hz	
DC24V	DC24V	
AC110V	AC110V 50/60 Hz	Option
AC220V	AC220V 50/60 Hz	
DC12V	DC12V	

● 100/200 VAC coil is available for 110/220 VAC (60 Hz).

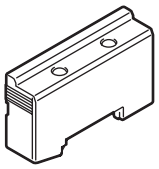
* With DC voltage, L is equipped with a surge suppressor

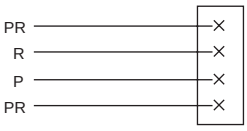
B End block (NE)





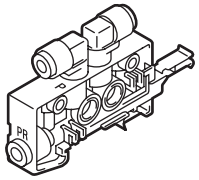
Model No.	Description
N4KB1A-NE1	End block on left side with the A/B port of the manifold facing forward

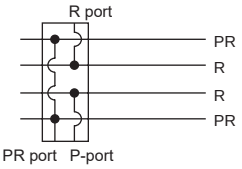




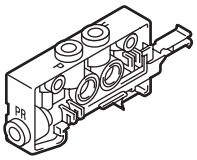
Model No.	Description
N4KB1A-NE2	End block on right side with the A/B port of the manifold facing forward

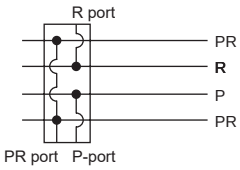
C Supply and exhaust block (NQ)





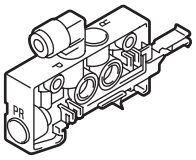
Model No.	P-port	R port	PR port
N4KB1A-NQSH8	ø8	ø8	ø8
N4KB1A-NQSH886	ø8	ø8	ø6
N4KB1A-NQSH686	ø6	ø8	ø6
N4KB1A-NQSH6	ø6	ø6	ø6

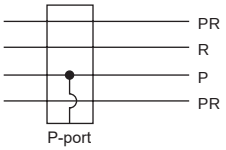




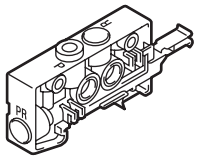
Model No.	P-port	R port	PR port
N4KB1A-NQUH8	ø8	ø8	ø8
N4KB1A-NQUH886	ø8	ø8	ø6
N4KB1A-NQUH686	ø6	ø8	ø6
N4KB1A-NQUH6	ø6	ø6	ø6

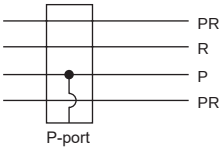
D Supply block (NP)





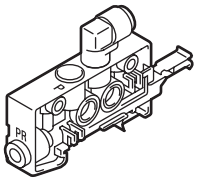
Model No.	P-port
N4KB1A-NPSH8	ø8
N4KB1A-NPSH6	ø6

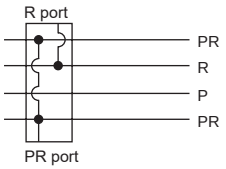




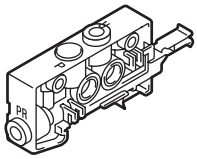
Model No.	P-port
N4KB1A-NPUH8	ø8
N4KB1A-NPUH6	ø6

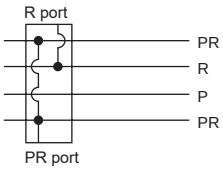
E Exhaust block (NR)





Model No.	R port	PR port
N4KB1A-NRSH8	ø8	ø8
N4KB1A-NRSH86	ø8	ø6
N4KB1A-NRSH6	ø6	ø6

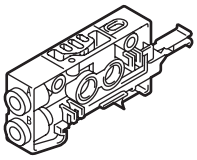


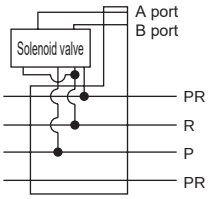


Model No.	R port	PR port
N4KB1A-NRUH8	ø8	ø8
N4KB1A-NRUH86	ø8	ø6
N4KB1A-NRUH6	ø6	ø6

F Discrete valve block (NS)

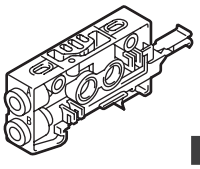
● For **N4KB110A**

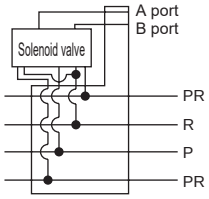




Model No.	A/B port
N4KB1A-NS1SH8	ø8
N4KB1A-NS1SH6	ø6
N4KB1A-NS1SH4	ø4

● For **N4KB120A to N4KB150A**

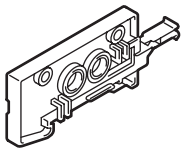


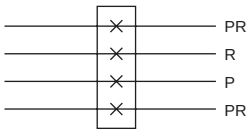


Model No.	A/B port
N4KB1A-NS2SH8	ø8
N4KB1A-NS2SH6	ø6
N4KB1A-NS2SH4	ø4

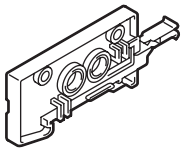
● As the NS is dedicated for each solenoid position Ⓐ, exchange the NS when changing the solenoid positions.

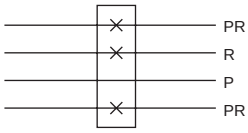
G Partition block (NC)





Model No.	Description
N4KB1A-NC1	All passages closed

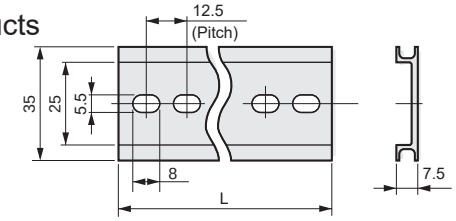




Model No.	Description
N4KB1A-NC2	Exhaust passages closed

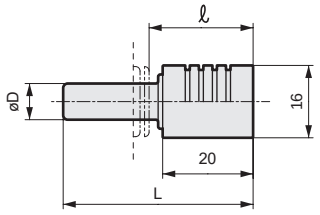
H Related products

● Mounting rail



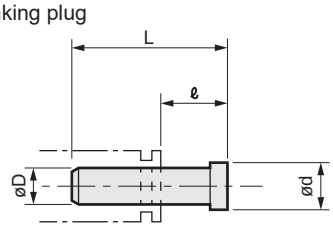
Model No.	L
BAA 500	500
BAA1000	1000

● Silencer



Model No.	D	L	ℓ
SLW-H6	ø6	41	23.5
SLW-H8	ø8	42	23

● Blanking plug



Model No.	D	L	ℓ	d
GWP4-B	ø4	27	11	6
GWP6-B	ø6	29	11.5	8
GWP8-B	ø8	33	14	10

● New urethane tube

NU- 04

● Soft nylon tube

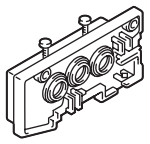
F-15 04

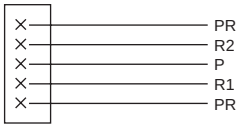
● Urethane tube

U-95 04

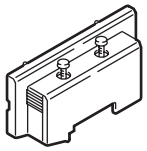
Ⓐ Compatible tube O.D. size
04 ø4
06 ø6
08 ø8

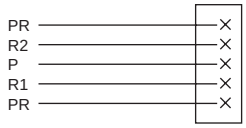
B End block (NE)





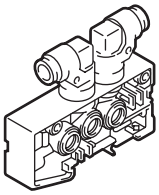
Model No.	Description
N4KB2-2NE1	End block on left side with the A/B port of the manifold facing forward

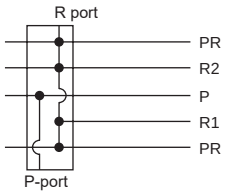




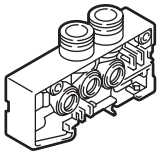
Model No.	Description
N4KB2-2NE2	End block on right side with the A/B port of the manifold facing forward

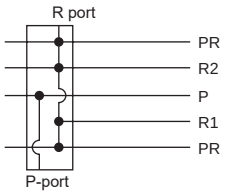
C Supply and exhaust block (NQ)





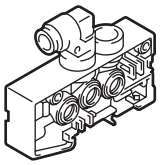
Model No.	P-port	R port
N4KB2-2NQSH12	ø12	ø12
N4KB2-2NQSH10	ø10	ø10
N4KB2-2NQSH8	ø 8	ø 8

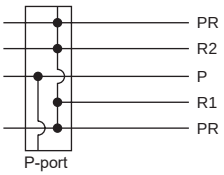




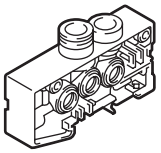
Model No.	P-port	R port
N4KB2-2NQUH12	ø12	ø12
N4KB2-2NQUH10	ø10	ø10
N4KB2-2NQUH8	ø 8	ø 8

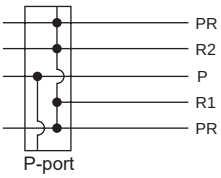
D Supply block (NP)





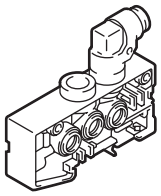
Model No.	P-port
N4KB2-2NPSH12	ø12
N4KB2-2NPSH10	ø10
N4KB2-2NPSH8	ø 8

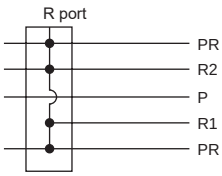




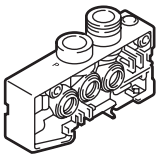
Model No.	P-port
N4KB2-2NPUH12	ø12
N4KB2-2NPUH10	ø10
N4KB2-2NPUH8	ø 8

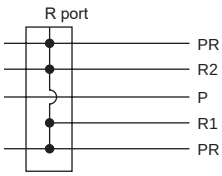
E Exhaust block (NR)





Model No.	R port
N4KB2-2NRSH12	ø12
N4KB2-2NRSH10	ø10
N4KB2-2NRSH8	ø 8

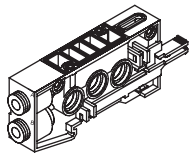


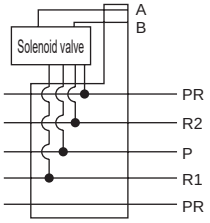


Model No.	R port
N4KB2-2NRUH12	ø12
N4KB2-2NRUH10	ø10
N4KB2-2NRUH8	ø 8

F Discrete valve block (NS)

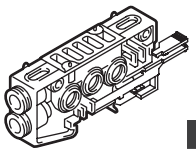
● For **N4KB210**

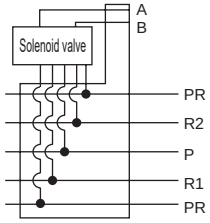




Model No.	A/B port
N4KB2-2NS1SH10	ø10
N4KB2-2NS1SH8	ø 8
N4KB2-2NS1SH6	ø 6

● **N4KB220 to N4KB250**

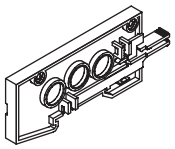


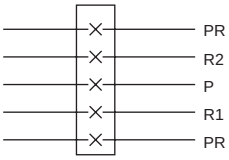


Model No.	A/B port
N4KB2-2NS2SH10	ø10
N4KB2-2NS2SH8	ø 8
N4KB2-2NS2SH6	ø 6

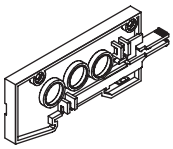
● As the NS is dedicated for each solenoid position (A), exchange the NS when changing the solenoid positions.

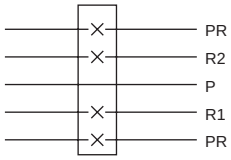
G Partition block (NC)





Model No.	Description
N4KB2-2NC1	All passages closed

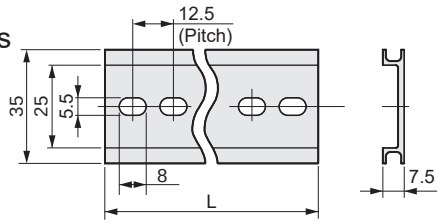




Model No.	Description
N4KB2-2NC2	Exhaust passages closed

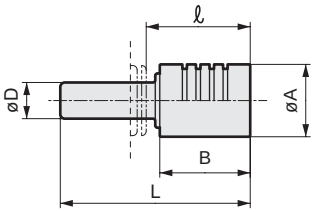
H Related products

● Mounting rail



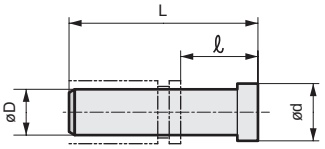
Model No.	L
BAA 500	500
BAA1000	1000

● Silencer



Model No.	D	L	ℓ	B	A
SLW-H8	ø 8	42	23	20	16
SLW-H10	ø10	53	31.5	27	20
SLW-H12	ø12	66	43	37	25

● Blanking plug



Model No.	D	L	ℓ	d
GWP6-B	ø 6	29	11.5	8
GWP8-B	ø 8	33	14	10
GWP10-B	ø10	40	18.5	12
GWP12-B	ø12	43	20	14

● New urethane tube

NU- 06

● Soft nylon tube

F-15 06

● Urethane tube

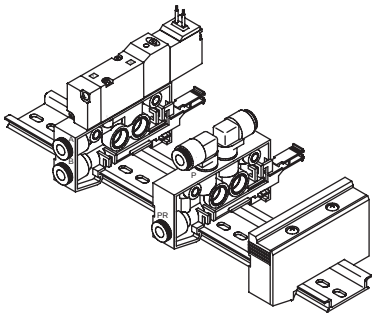
U-95 06

(A) Compatible tube O.D. size	
06	ø 6
08	ø 8
10	ø10
12	ø12

How to disassemble/assemble ⚠ CAUTION: Be sure to turn power OFF and release pressure before increasing or decreasing the number of manifold stations.

Assembling the block manifold

(1) Fix the DIN rail.
(2) Mount the necessary number of stations of end blocks, supply and exhaust blocks, and valve blocks in order on the rail and connect between the blocks with the connecting key.
(3) Fasten the screws on the end blocks on both sides and fix onto the rail.
(4) Mount the solenoid valve on the valve block. (The solenoid valve is mounted on the valve block at shipment)
(5) Perform piping of tubes and wiring to complete the task.

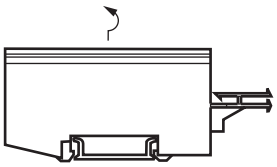


Mounting the end block

(1) Upon confirming that the mounting screws have been loosened, press from the top and hook the movable claws onto the rail.
(2) Lift the block to confirm that the claws have been secured.
(3) After mounting all of the blocks, fasten with the two screws. The appropriate tightening torque is 1.4 N·m.

Removing the end block

(1) Loosen the screws 6 or 7 turns to pinch and pull out the connecting key.
(2) Shift the end block by 4 mm or more and pull in the direction of the arrow in the following drawing to remove.

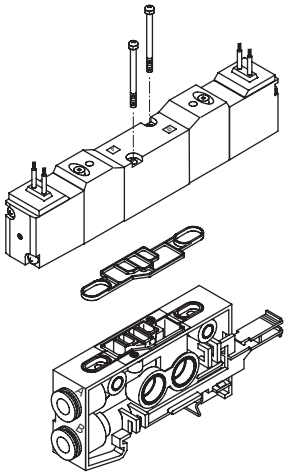


Mounting the supply and exhaust block and valve block

(1) Hook the fixation claws on the rail first and press down on the movable claws from the top.
(2) Slide until there are no gaps between the blocks and push in the connecting key.

Mounting the solenoid valve

(1) Fit the dedicated gasket in the valve block.
(2) Fasten the solenoid valve with 2 screws. The appropriate tightening torque is 0.6 N·m for N4KB1 and 0.8 N·m for N4KB2.



Removing the supply and exhaust block and valve block

(1) Remove the end block.
(2) Pinch and pull out the connecting key.
(3) Shift the blocks by 4 mm or more and then pull up on the side with the movable claws to remove.