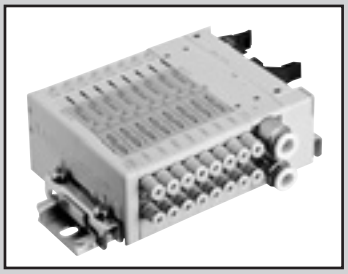


Reduced wiring block
manifold pilot operated 3, 4-port valve

MN3E00/MN4E00 Series

Common specifications

Item	Description
Manifold method	Block manifold
Manifold	Common supply/exhaust Exhaust check valve built-in (*1)
Working fluid	Compressed air
Valve and operation	Pilot operated soft spool valve
Max. working pressure MPa	0.7 (≈100 psi, 7 bar)
Min. working pressure MPa	0.2 (≈29 psi, 2 bar)
Proof pressure MPa	1.05 (≈150 psi, 10.5 bar)
Ambient temperature °C	5 (41°F) to 55 (131°F)
Fluid temperature °C	5 (41°F) to 55 (131°F)
Lubrication	Not required (*2)
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 environments
Manual override	Locking/non-locking common type or non-locking

*1: Check valve block back pressure from adjacent pneumatic devices, etc. However, the structure does not permit continuous pressure holding, so do not use for purposes other than blocking back pressure.

Electrical specifications

Item		Description
Rated voltage V		12, 24 DC
Voltage fluctuation range		±10% (When using serial transmission +10%, -5%)
Holding current A	24 VDC	0.017 (0.009) (*3)
	12 VDC	0.033 (0.018) (*3)
Power consumption W	24 VDC	0.4 (0.22) (*3)
	12 VDC	
Thermal class		B
Indicator		LED

*2: As this product has non-lubrication specifications, adding oil may cause leakage of the grease initially sealed in, which may prevent the product from operating at its maximum performance.
*3: Values shown in ( ) are for low exoergic/energy saving circuit. As well, when using the valve block with low exoergic/energy-saving circuit, energizing is limited to the plus common.

Individual specifications

Item \ Port		3-port valve	4-port valve	Two 3-port valves integrated *1
Port size	A/B Port	ø1.8, ø3, ø4 Push-in fitting, M3		
	P/R port	ø6, ø8 Push-in fitting		
	External pilot port	ø6 Push-in fitting		-

*1: The type with two 3-port valves integrated uses main pressure to operate the valving element, and therefore cannot be used with external pilot. Check for sufficient supply air flow that the supply pressure does not drop below the min. working pressure due to the operation of the connected load (air operated valve), etc.

Max. number of stations energized by manifold

● T3□/T5□/TM□/T6G1

Item		MN3E00/MN4E00								
		T30 (N)	T50	T51	T52	T53	TM1A	TM1C	TM52	T6G1
Max. station No.	Standard wiring	24 stations	16 stations	18 stations	8 stations	24 stations	10 stations	5 stations	8 stations	16 stations
	Double wiring	12 stations	8 stations	9 stations	4 stations	12 stations	5 stations	2 stations	4 stations	8 stations
Max. number of solenoids		24 points	16 points	18 points	8 points	24 points	10 points	5 points	8 points	16 points

● T7□

Item		MN3E00/MN4E00							
		T7D1	T7D2	T7G1	T7G2	T7N1	T7N2	T7EC□1	T7EC□2
Max. station No.	Standard wiring	16 stations	32 stations	16 stations	32 stations	16 stations	32 stations	16 stations	32 stations
	Double wiring	8 stations	16 stations	8 stations	16 stations	8 stations	16 stations	8 stations	16 stations
Max. number of solenoids		16 points	32 points	16 points	32 points	16 points	32 points	16 points	32 points

Performance/characteristics by model

Item \ Port			3-port valve	4-port valve	Two 3-port valves integrated
Response time (*1) ms	2 position	Single	20 or less	20 or less	20 or less
		Double	20 or less	20 or less	-

*1: The response time is the value at 0.5 MPa supply pressure, with no lubrication.

Flow characteristics

		P→A/B		A/B→R	
		C[dm³/(s·bar)]	b	C[dm³/(s·bar)]	b
3-port valve	2-position	0.30	0.20	0.32	0.24
4-port valve	2-position	0.30	0.20	0.32	0.24
Two 3-port valves integrated	2-position	0.30	0.20	0.32	0.24

*1: Effective cross-sectional area S and sonic conductance C are converted as S ≈ 5.0 × C. *2: Value for ø4 push-in fitting

Device unit specifications

The communication setting file can be downloaded from the CKD website (https://www.ckd.co.jp/en/).

Item		T6G1 *1	T7D1 T7D2	T7G1 *1 T7G2	T7N1 T7N2	T7EC □ 1 T7EC □ 2
Power supply voltage	Unit side	24 VDC ±10%	24 VDC ±10%			
	Valve side	24 VDC + 10% -5%	24 VDC + 10% -5%			
	Unit side	-	11 to 25 VDC	-		
Current consumption	Unit side	100 mA or less (When all points output ON)	T7D1: 60 mA or less T7D2: 85 mA or less (When all points output ON)	T7G1: 65 mA or less T7G2: 90 mA or less (When all points output ON)	T7N1: 40 mA or less T7N2: 50 mA or less (When all points output ON)	120 mA or less (When all points output ON)
	Valve side	15 mA or less (when all points OFF)	15 mA or less (when all points OFF)			
	Unit side	-	50 mA or less	-		
No. of I/O points		16 points	T7D1: 16 points T7D2: 32 points	T7G1: 16 points T7G2: 32 points	T7N1: 16 points T7N2: 32 points	T7EC □ 1: 16 points T7EC □ 2: 32 points
Occupied number		1 station	T7D1: 2 bytes T7D2: 4 bytes	T7G1: 1 station T7G2: 1 station	T7N1: output 16 points T7N2: output 32 points	T7EC □ 1: 1 address T7EC □ 2: 1 address

*1: CC-Link is Ver. 1.10.

Weight

Wiring block (g)		D-sub-connector T30(N)	Flat cable connector T5*	Intermediate wiring block		Serial transmission		
				TM1*	TM52	T6G1	T7*	T7EC*
		67	59	32	34	205	128	145
Supply and exhaust block (g)		Q/QZ	QK	QKZ	QX		QKX	
	Fitting Lateral	64	69	79	56		61	
	Fitting Upward	90	94	98	62		66	
Valve block (g)		2-position single	2-position double	Two 3-port valves integrated				
	Fitting Lateral	31.5	35.0	35.0				
	Fitting Upward	37.5	41.0	41.0				
Dummy block (g)		MPS/MPD						
		20						
Regulator block (g)	(*1)	-						
		124						
End block (g)		ER/EL						
		40						
DIN rail (g)		-						
		0.19 g/mm						

*1: The values may differ slightly based on the regulator block specifications.

How to order manifold D sub/flat cable connector

*Refer to page 878 for serial transmission.

● Discrete valve block

N 3 E00 1 0 - C3 —— M D2 W EF —— 3

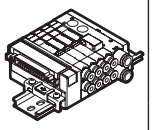
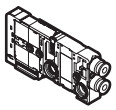
● Block manifolds

MN 4 E00 1 0 - C3 - R - M T53 D2 E - 5 - 3

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

Individual wiring

*** "Manifold specifications sheet" (Page 957).**

Type	
Block manifold	Valve Discrete block
	

Code	Description		Block manifold	Valve Discrete block
A Valve type				
3	3-port valve or two 3-port valves integrated		●	●
4	4-port valve or 3, 4-port valve mix		●	●
B Solenoid position (*10)				
1	3-port valve: Single NC self-reset	(Differential pressure spring return)	●	●
11	3-port valve: Single NO self-reset	(Differential pressure spring return)	●	●
2	3-port valve: Double NC self-hold		●	●
21	3-port valve: Double NO self-hold		●	●
66	Two 3-port valves integrated (*1): A side valve: NC self-reset	(Differential pressure return)	●	●
66S	Two 3-port valves integrated (*1): B side valve: NC self-reset	(Differential pressure spring return)	●	●
67	Two 3-port valves integrated (*1): A side valve: NC self-reset	(Differential pressure return)	●	●
67S	Two 3-port valves integrated (*1): B side valve: NO self-reset	(Differential pressure spring return)	●	●
76	Two 3-port valves integrated (*1): A side valve: NO self-reset	(Differential pressure return)	●	●
76S	Two 3-port valves integrated (*1): B side valve: NC self-reset	(Differential pressure spring return)	●	●
77	Two 3-port valves integrated (*1): A side valve: NO self-reset	(Differential pressure return)	●	●
77S	Two 3-port valves integrated (*1): B side valve: NO self-reset	(Differential pressure spring return)	●	●
1	4-port valve: 2-position single self-reset	(Differential pressure spring return)	●	●
2	4-port valve: 2-position double self-hold		●	●
8	Mix manifold		●	
C Port size				
C18	ø1.8 push-in fitting lateral (compatible tube UP-9402-**)		●	●
CL18	ø1.8 push-in fitting upward (compatible tube UP-9402-**)		●	●
C3	ø3 Push-in fitting Side		●	●
CL3	ø3 push-in fitting upward		●	●
C4	ø4 push-in fitting lateral		●	●
CL4	ø4 push-in fitting upward		●	●
M3	M3 female thread (with rotation-stop)		●	●
CX	Mix push-in fitting (*12)		●	
C3N	ø1/8" push-in fitting lateral		●	●
CL3N	ø1/8" push-in fitting upward		●	●
C4N	ø5/32" push-in fitting lateral		●	●
CL4N	ø5/32" push-in fitting upward		●	●
CXN	Mix push-in fitting (*12)		●	
D Adjustment function				
Blank	Without regulator block		●	
R	Regulator block equipped manifold	(*2)(*3)	●	
E Manual override				
Blank	Non-locking/locking common (with manual cover)		●	●
M	Manual override for non-locking (with manual cover)		●	●
F Wiring method				
Refer to the following page for the wiring method.			●	
G Terminal/connector pin array				
Blank	Standard wiring		●	●
W	Double wiring (*4))(*5)		●	●
H Option				
Blank	No		●	●
E	Low exoergic/energy circuit type (*6)(*7)		●	●
F	Port A/B filter integrated (*8)		●	●
I Station No.				(*11)
1	1 stations		●	
to	to			
24	24 stations (*9)			
J Voltage				
3	24 VDC		●	●
4	12 VDC		●	●

· For model No. of the cable with D sub-connector, refer to page 935.

Precautions for model No. selection

*1:The two 3-port valves integrated type cannot be used with the external pilot. Consult with CKD for other working conditions.

*2:The two 3-port valves integrated type resets the main valve with the main pressure, so if there is a difference between the pilot pressure and main pressure, the response time may be delayed.

*3:Check that the main pressure supplied to the valve block with two 3-port valves integrated is not higher than the pilot pressure, and that the main pressure does not drop below 0.2 MPa.

***4: Refer to the connector pin layout (example) on pages 934 to 941 for the double wiring specifications.** When ordering individual valve blocks, the double wiring designation is limited to the 4-position single solenoid for the 2-port valve and to the 3-position single solenoid for the 2-port valve.

*5: Double wiring is not available for discrete individual wiring valve block.

*6: Energizing is limited to the plus common.

*7: Individual wiring is not available for low exoergic/energy circuit type.

*8: In the supply and exhaust block's port P, a filter (for preventing entry of foreign matter) is incorporated.

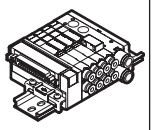
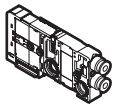
***9:Differs depending on the specifications. Refer to page 872.**

***10:For specifications of the self-reset, refer to the precautions on page 959.** To include a dummy block, select mix manifold.

*11:A dummy block is counted in the station No.

*12:Inch fittings cannot be mixed with metric fittings and M3 female threads.

(Wiring method list)

Code	Description		Type: Block manifold	Type: Valve Discrete block
				
Ⓕ Wiring method				
T30(N)	25-pin D-sub-connector Left-sided spec.		●	
T30(N)R	25-pin D-sub-connector Right-sided spec.		●	
T50	20-pin flat cable connector Left-sided spec. (with power supply terminal) (*13)		●	
T50R	20-pin flat cable connector Right-sided spec. (with power supply terminal) (*13)		●	
T51	20-pin flat cable connector Left-sided spec.		●	
T51R	20-pin flat cable connector Right-sided spec.		●	
T52	10-pin flat cable connector Left-sided spec.		●	
T52R	10-pin flat cable connector Right-sided spec.		●	
T53	26-pin flat cable connector Left-sided spec.		●	
T53R	26-pin flat cable connector Right-sided spec.		●	
TM1A	Intermediate wiring block RITS connector 6P×2 (*14)		●	
TM1C	Intermediate wiring block RITS connector 6P (*14)		●	
TM52	Intermediate wiring block 10-pin flat cable connector		●	
TX	Wiring block mix(*15) (*16) (*17)		●	
Blank	Valve block for reduced wiring			●
D2	Individual wiring *	D-connector 300 mm	●	●
D20		D-connector 500 mm	●	●
D21		D-connector 1000 mm	●	●
D22		DType connector 2000mm	●	●
D23		D-connector 3000 mm	●	●
D2N		D-connector without socket	●	●
D3		D-connector with socket/terminal	●	●

*13: T50 and T50R with power supply terminal can be combined only with T50R and T50 respectively.
*14:RITS connector 6P (1473562-6) Tyco Electronics Japan G.K.
*15: Request 2 pcs in the manifold specifications sheet. Contact CKD for 3 pcs. or more.
*16: Individual wiring is not available for the TX wiring method.
*17: For the TX wiring method, the max. station No. is 24.
* Individual wiring: Individual wiring specification is available with valve blocks designated for it.

Ozone specifications

Ozone-proof specifications are available as standard.

Clean-room specifications

(Catalog No. CB-033SA)

● Anti-dust generation structure for use in cleanrooms

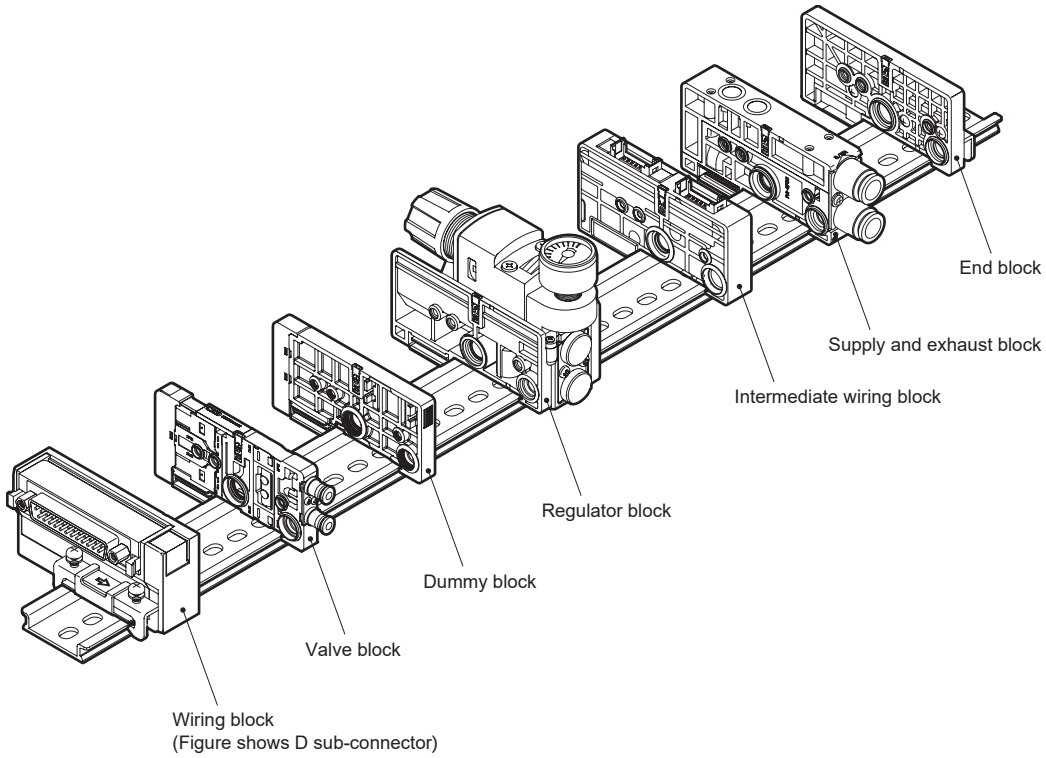
** - Voltage - **P70**

CE marking specifications

** - Voltage - **ST**

・Standard voltage of DC24V or less is CE marking-compatible even if the model No. is not indicated with "ST".

Manifold components explanation and parts list



Example of main component model No. (Refer to pages 922 to 932 for details)

Part name	Model No. (example)	Part name	Model No. (example)
Wiring block	N4E0-T30	Intermediate wiring block	N4E0-TM1A
Valve block	N4E0020-C3-3	Supply and exhaust block	N4E0-Q-8
Dummy block	N4E0-MPD	End block	N4E0-ER
Regulator block	N4E0-RA-RL		

Related parts list

Part name	Model No. (example)	Part name	Model No. (example)
Cartridge push-in fitting and related parts	N4E00-JOINT-C18	Cartridge push-in fitting and related parts	N4E00-JOINT-CPG
	N4E00-JOINT-C3		
	N4E00-JOINT-C4		
	N4E00-JOINT-CL18		
	N4E00-JOINT-CL3		
	N4E00-JOINT-CL4		
	N4E00-JOINT-C3N		
	N4E00-JOINT-C4N		
	N4E00-JOINT-CL3N		
	N4E00-JOINT-CL4N		

MEMO

How to order manifold Serial transmission

* Refer to page 874 for details on D sub-connector/flat cable connector.

● Discrete valve block

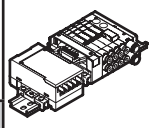
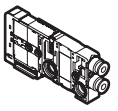
N 3 E00 1 0- C3 —— M D2 W EF —— 3

● Block manifolds

MN 4 E00 1 0- C3 - R - M T6G1 D2 E - 5 - 3

- DIN rail Mounting method
- A Valve type
- B Solenoid position
- C Port size
- D Adjustment function
- E Manual override
- F Wiring method (serial transmission)
- G Terminal/connector pin array
- H Option
- I Station No.
- J Voltage
- Individual wiringType

***Be sure to fill in the "Manifold specifications sheet" (page 957).**

Code	Description	Type: Block manifold	Type: Valve Discrete block
			
A Valve type			
3	3-port valve or two 3-port valves integrated	●	●
4	4-port valve or 3, 4-port valve mix	●	●
B Solenoid position (*10)			
1	3-port valve: Single NC self-reset (Differential pressure spring return)	●	●
11	3-port valve: Single NO self-reset (Differential pressure spring return)	●	●
2	3-port valve: Double NC self-hold	●	●
21	3-port valve: Double NO self-hold	●	●
66	Two 3-port valves integrated (*1): A side valve: NC self-reset (Differential pressure return)	●	●
66S	Two 3-port valves integrated (*1): B side valve: NC self-reset (Differential pressure spring return)	●	●
67	Two 3-port valves integrated (*1): A side valve: NC self-reset (Differential pressure return)	●	●
67S	Two 3-port valves integrated (*1): B side valve: NO self-reset (Differential pressure spring return)	●	●
76	Two 3-port valves integrated (*1): A side valve: NO self-reset (Differential pressure return)	●	●
76S	Two 3-port valves integrated (*1): B side valve: NC self-reset (Differential pressure spring return)	●	●
77	Two 3-port valves integrated (*1): A side valve: NO self-reset (Differential pressure return)	●	●
77S	Two 3-port valves integrated (*1): B side valve: NO self-reset (Differential pressure spring return)	●	●
1	4-port valve: 2-position single self-reset (Differential pressure spring return)	●	●
2	4-port valve: 2-position double self-hold	●	●
8	Mix manifold	●	
C Port size			
C18	ø1.8 push-in fitting lateral (compatible tube UP-9402-**)	●	●
CL18	ø1.8 push-in fitting upward (compatible tube UP-9402-**)	●	●
C3	ø3 push-in fitting lateral	●	●
CL3	ø3 push-in fitting upward	●	●
C4	ø4 push-in fitting lateral	●	●
CL4	ø4 push-in fitting upward	●	●
M3	M3 female thread (with rotation-stop)	●	●
CX	Mix push-in fitting (*12)	●	
C3N	ø1/8" push-in fitting lateral	●	●
CL3N	ø1/8" push-in fitting upward	●	●
C4N	ø5/32" push-in fitting lateral	●	●
CL4N	ø5/32" push-in fitting upward	●	●
CXN	Mix push-in fitting (*12)	●	
D Adjustment function			
Blank	Without regulator block	●	
R	Regulator block equipped manifold (*2) (*3)	●	
E Manual override			
Blank	Non-locking/locking common (with manual cover)	●	●
M	Manual override for non-locking (with manual cover)	●	●
F Wiring method			
Refer to the following page for the wiring method.		●	
G Terminal/connector pin array			
Blank	Standard wiring	●	●
W	Double wiring (*4) (*5)	●	●
H Option			
Blank	No	●	●
E	Low exoergic/energy circuit type (*6)(*7)	●	●
F	Port A/B filter integrated (*8)	●	●
I Station No.			(*11)
1	1 stations	●	
to	to		
32	32 stations (*9)		
J Voltage			
3	24 VDC	●	●

Precautions for model No. selection

*1:The two 3-port valves integrated type cannot be used with the external pilot. Consult with CKD for other working conditions.

*2:The two 3-port valves integrated type resets the main valve with the main pressure, so if there is a difference between the pilot pressure and main pressure, the response time may be delayed.

*3:Check that the main pressure supplied to the valve block with two 3-port valves integrated is not higher than the pilot pressure, and that the main pressure does not drop below 0.2 MPa.

***4:Check the connector pin array (example) given on pages 944 to 948 for the double wiring specifications.**
When ordering individual valve blocks, the double wiring designation is limited to the 4-position single solenoid for the 2-port valve and to the 3-position single solenoid for the 2-port valve.

*5: Double wiring is not available for discrete individual wiring valve block.

*6: Energizing is limited to the plus common.

*7: Individual wiring is not available for low exoergic/energy circuit type.

*8: A filter (for preventing entry of foreign matter) is incorporated in the supply and exhaust block's port P.

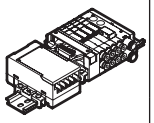
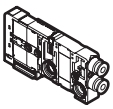
***9:Differs depending on the specifications. Refer to page 872.**

***10:For specifications of the self-reset, refer to the precautions on page 959.**
To include a dummy block, select mix manifold.

*11: A dummy block is counted in the station No.

*12: Inch fittings cannot be mixed with metric fittings and M3 female threads.

(Wiring method list)

Code		Description	Type: Block manifold	Type: Valve Discrete block
				
Ⓕ Wiring method				
T6G1		CC-Link 16 points	●	
T7D1		Close contact type DeviceNet 16 points	●	
T7D2		Close contact type DeviceNet 32 points	●	
T7G1		Close contact type CC-Link 16 points	●	
T7G2		Close contact type CC-Link 32 points	●	
T7N1		Close contact type S-LINK V 16 points	●	
T7N2		Close contact type S-LINK V 32 points	●	
T7EC1		Close contact EtherCAT 16 points (port side leadout)	●	
T7EC2		Close contact EtherCAT 32 points (port side leadout)	●	
T7ECT1		Close contact EtherCAT 16 points (wiring side leadout)	●	
T7ECT2		Close contact EtherCAT 32 points (wiring side leadout)	●	
Blank		Valve block for reduced wiring		●
D2	Individual wiring	D-connector 300 mm	●	●
D20		D-connector 500 mm	●	●
D21		D-connector 1000 mm	●	●
D22		DType connector 2000mm	●	●
D23		D-connector 3000 mm	●	●
D2N		D-connector without socket	●	●
D3		D-connector with socket/terminal	●	●

Ozone specifications

Ozone-proof specifications are available as standard.

Clean-room specifications

(Catalog No. CB-033SA)

● Anti-dust generation structure for use in cleanrooms

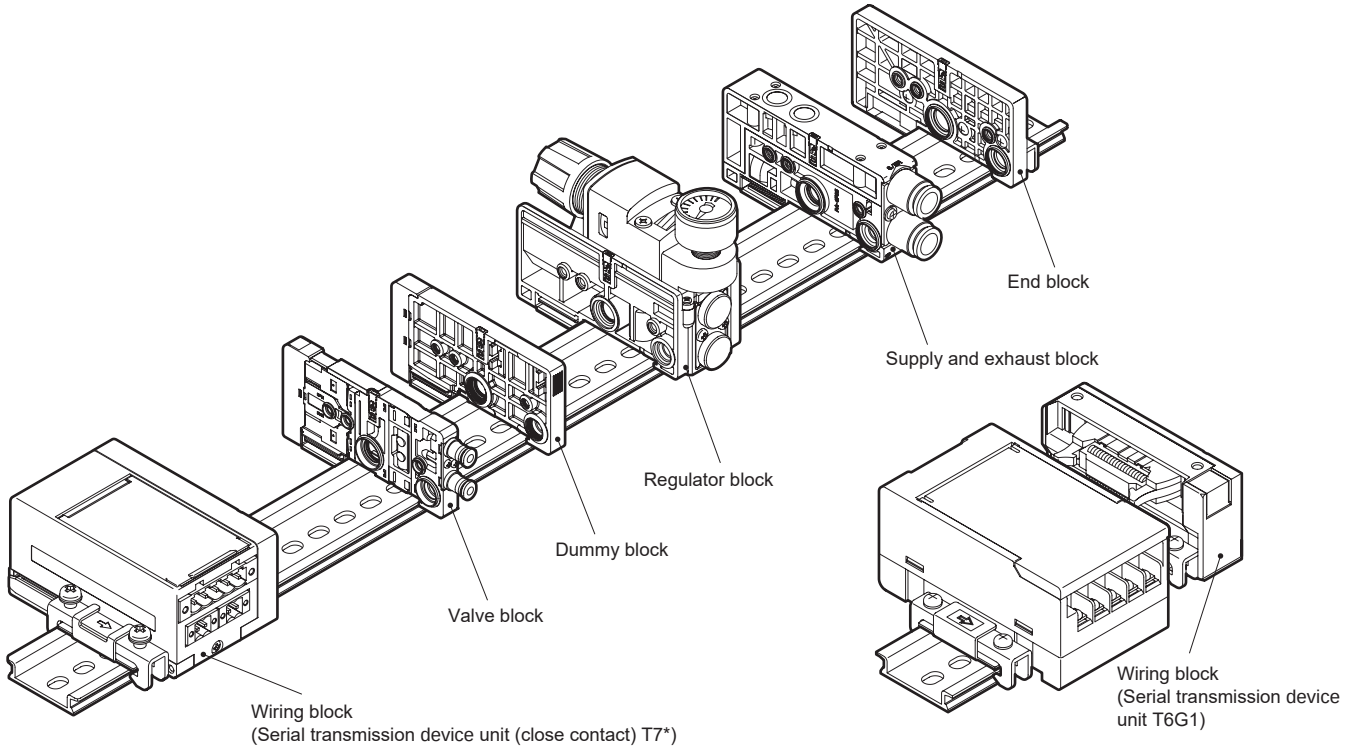
** - Voltage - **P70**

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".
- T7N1 and T7N2 are not CE marking.

Manifold components explanation and parts list



Example of main component model No. (Refer to pages 922 to 932 for details)

Part name	Model No. (example)	Part name	Model No. (example)
Wiring block	N4E0-T7G2	Supply and exhaust block	N4E0-Q-8
Valve block	N4E0020-C3-3	End block	N4E0-ER
Dummy block	N4E0-MPD		
Regulator block	N4E0-RA-RL		

Related parts list

Part name	Model No. (example)	Part name	Model No. (example)
Cartridge push-in fitting and related parts	N4E00-JOINT-C18	Cartridge push-in fitting and related parts	N4E00-JOINT-CPG
	N4E00-JOINT-C3		
	N4E00-JOINT-C4		
	N4E00-JOINT-CL18		
	N4E00-JOINT-CL3		
	N4E00-JOINT-CL4		
	N4E00-JOINT-C3N		
	N4E00-JOINT-C4N		
	N4E00-JOINT-CL3N		
	N4E00-JOINT-CL4N		

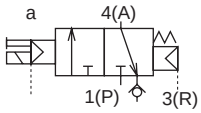
MEMO

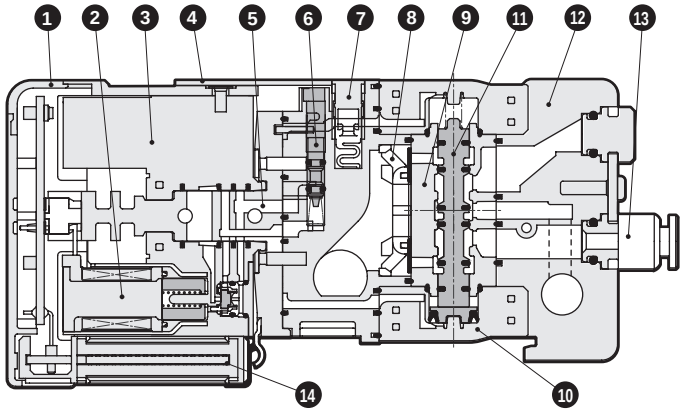
Internal structure and parts list

3-port valve

N3E0010

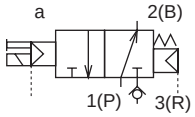
● 2-position single normally closed

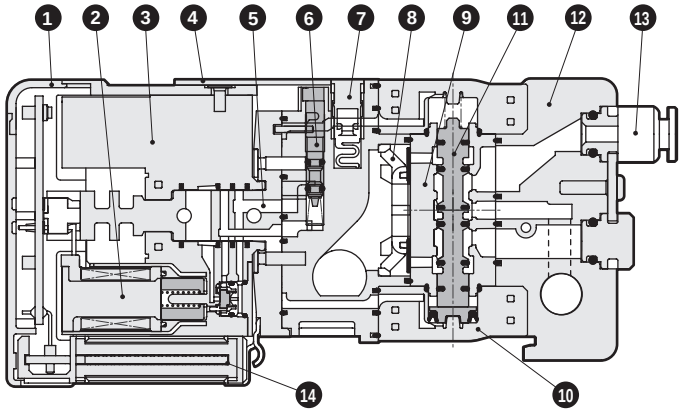




N3E00110

● 2-position single normally open





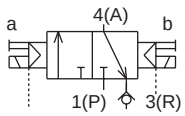
Main parts list

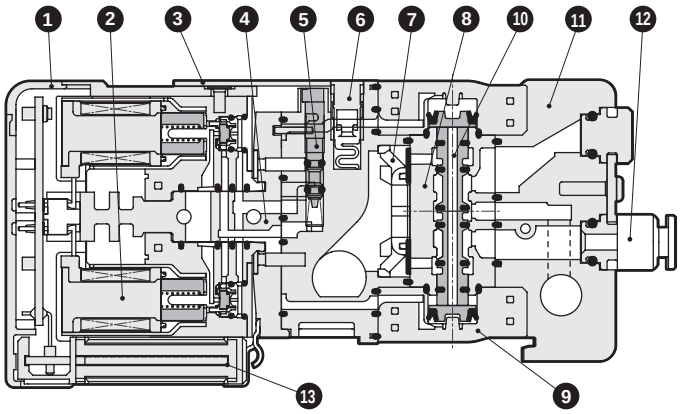
No.	Part name	Main material	No.	Part name	Main material
1	Wiring cover	PBT/PC	8	Check valve	PBT/TPU
2	Coil assembly	-	9	Body	ZDC
3	Coil dummy	PPS	10	Piston chamber assembly	PPS/POM
4	Manual cover	PBT	11	Spool assembly	AL
5	Pilot block assembly	PPS	12	Port block assembly	PA
6	Manual override	POM	13	Cartridge push-in fitting	-
7	Connection key	POM	14	Wiring connector assembly	LCP

Internal structure and parts list

N3E0020

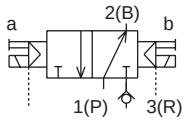
● 2-position double normally closed (self-hold)

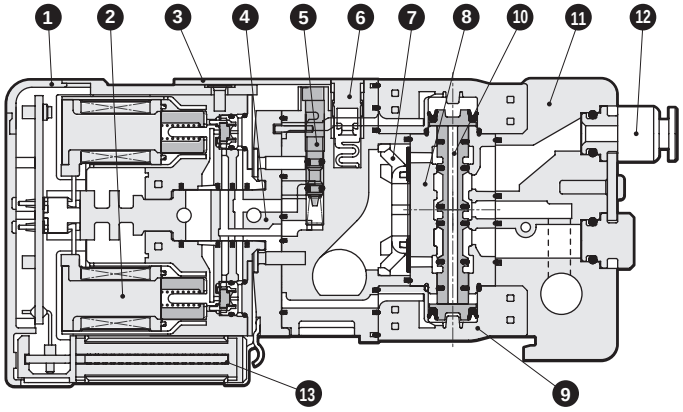




N3E00210

● 2-position double normally open (self-hold)





Main parts list

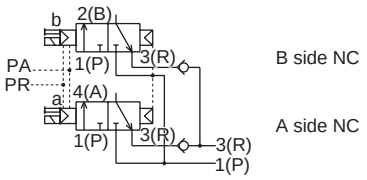
No.	Part name	Main material	No.	Part name	Main material
1	Wiring cover	PBT/PC	8	Body	ZDC
2	Coil assembly	-	9	Piston chamber assembly	PPS/POM
3	Manual cover	PBT	10	Spool assembly	AL
4	Pilot block assembly	PPS	11	Port block assembly	PA
5	Manual override	POM	12	Cartridge push-in fitting	-
6	Connection key	POM	13	Wiring connector assembly	LCP
7	Check valve	PBT/TPU			

Internal structure and parts list

Two 3-port valves integrated

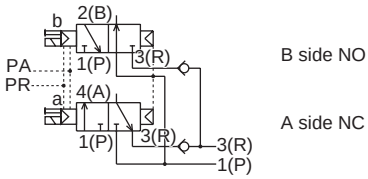
N3E00660

● NC/NC self-reset (differential pressure return)



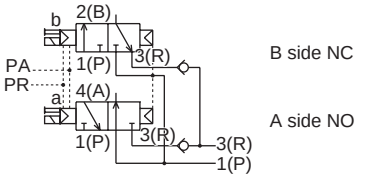
N3E00670

● NC/NO self-reset (differential pressure return)



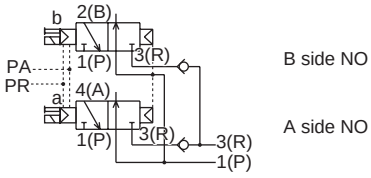
N3E00760

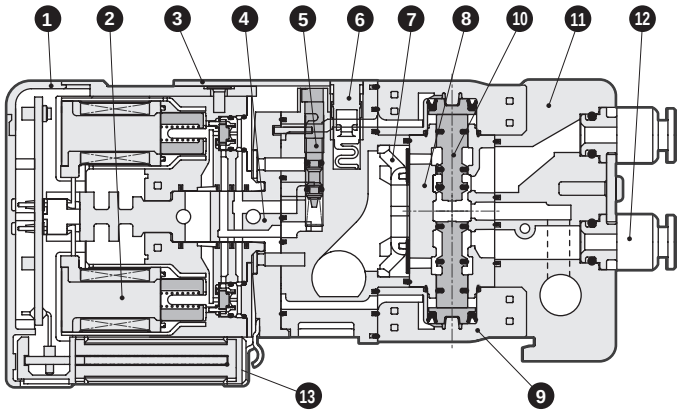
● NO/NC self-reset (differential pressure return)



N3E00770

● NO/NO self-reset (differential pressure return)





The figure shows an NC/NO self-reset (differential pressure return) with two 3-port valves integrated and both sides solenoid valves OFF.

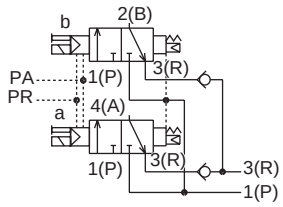
Main parts list

No.	Part name	Main material	No.	Part name	Main material
1	Wiring cover	PBT/PC	8	Body	ZDC
2	Coil assembly	-	9	Piston chamber assembly	PPS/POM
3	Manual cover	PBT	10	Spool assembly	AL
4	Pilot block assembly	PPS	11	Port block assembly	PA
5	Manual override	POM	12	Cartridge push-in fitting	-
6	Connection key	POM	13	Wiring connector assembly	LCP
7	Check valve	PBT/TPU			

Internal structure and parts list

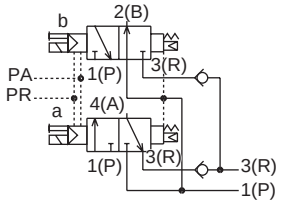
N3E0066S0

● NC/NC self-reset (differential pressure spring return)



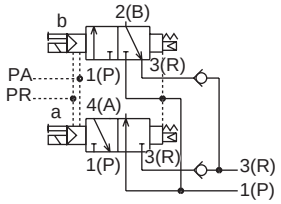
N3E0067S0

● NC/NO self-reset (differential pressure spring return)



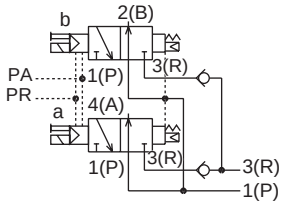
N3E0076S0

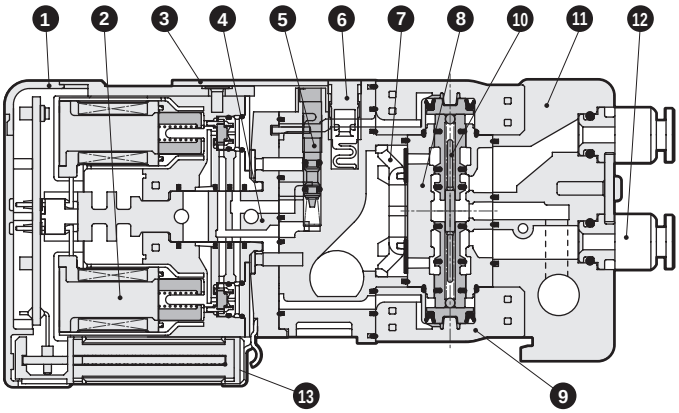
● NO/NC self-reset (differential pressure spring return)



N3E0077S0

● NO/NO self-reset (differential pressure spring return)





The figure shows an NC/NO self-reset (differential pressure spring return) with two 3-port valves integrated and both sides solenoid valves OFF.

Main parts list

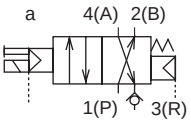
No.	Part name	Main material	No.	Part name	Main material
1	Wiring cover	PBT/PC	8	Body	ZDC
2	Coil assembly	-	9	Piston chamber assembly	PPS/POM
3	Manual cover	PBT	10	Spool assembly	AL
4	Pilot block assembly	PPS	11	Port block assembly	PA
5	Manual override	POM	12	Cartridge push-in fitting	-
6	Connection key	POM	13	Wiring connector assembly	LCP
7	Check valve	PBT/TPU			

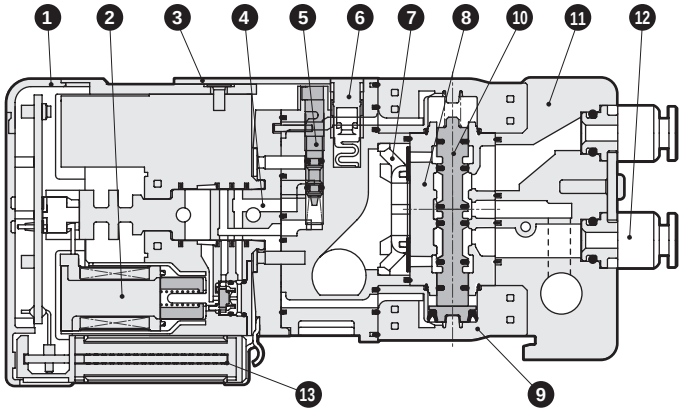
Internal structure and parts list

4-port valve

N4E0010

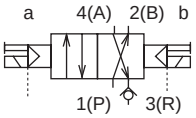
● 2-position single self-reset (differential pressure spring return)

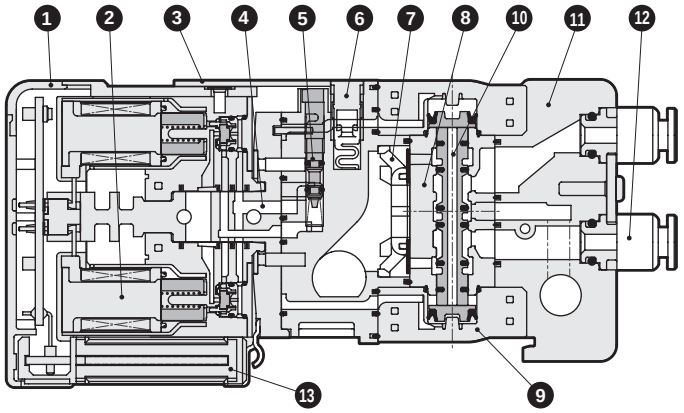




N4E0020

● 2-position double self-hold





Main parts list

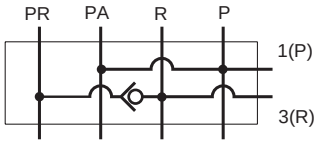
No.	Part name	Main material	No.	Part name	Main material
1	Wiring cover	PBT/PC	8	Body	ZDC
2	Coil assembly	-	9	Piston chamber assembly	PPS/POM
3	Manual cover	PBT	10	Spool assembly	AL
4	Pilot block assembly	PPS	11	Port block assembly	PA
5	Manual override	POM	12	Cartridge push-in fitting	-
6	Connection key	POM	13	Wiring connector assembly	LCP
7	Check valve	PBT/TPU			

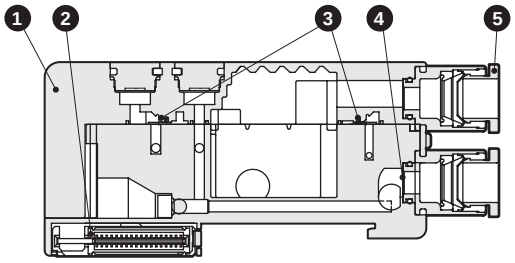
Internal structure and parts list

Supply and exhaust block

N4E0-Q

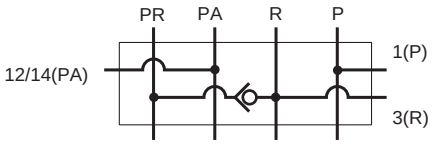
● For internal pilot

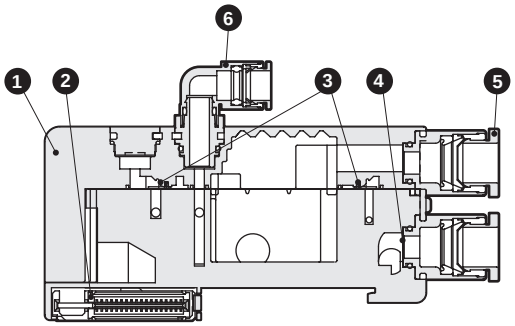




N4E0-QK

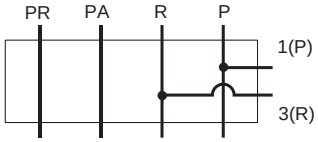
● For external pilot

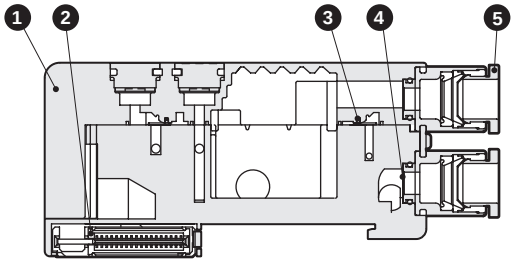




N4E0-QZ

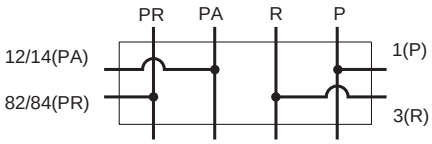
● For multi-pressure circuit

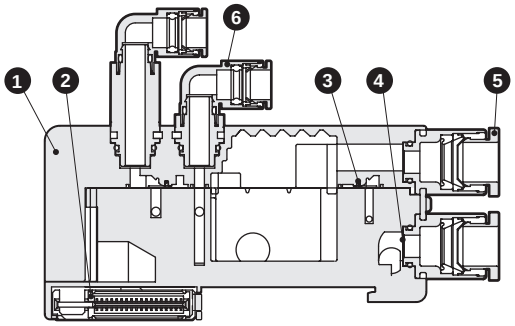




N4E0-QKZ

● PA/PR separated for external pilot





Main parts list

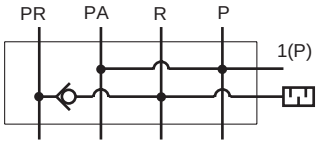
No.	Part name	Main material
1	Supply and exhaust block	PA
2	Wiring connector assembly	LCP
3	Check valve	TPU
4	Air supply filter	SUS
5	Cartridge push-in fitting (main piping section)	-
6	Cartridge push-in fitting (external pilot piping section)	-

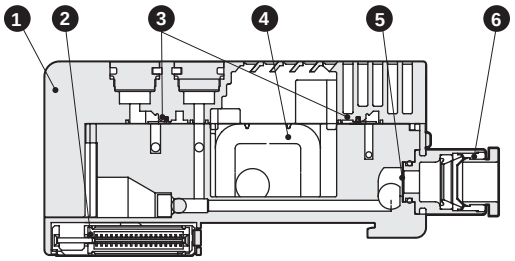
Internal structure and parts list

Supply and exhaust block

N4E0-QX

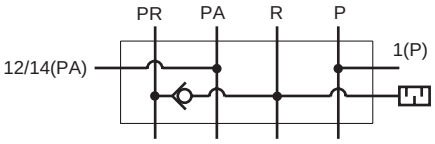
● Atmosphere release for internal pilot

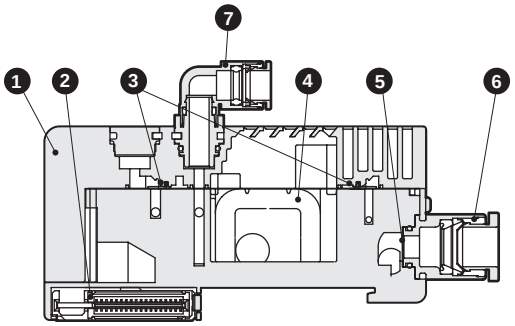




N4E0-QKX

● Atmosphere release for external pilot





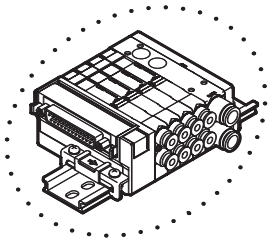
Main parts list

No.	Part name	Main material
1	Supply and exhaust block	PA
2	Wiring connector assembly	LCP
3	Check valve	TPU
4	Exhaust filter	-
5	Air supply filter	SUS
6	Cartridge push-in fitting (main piping section)	-
7	Cartridge push-in fitting (external pilot piping section)	-

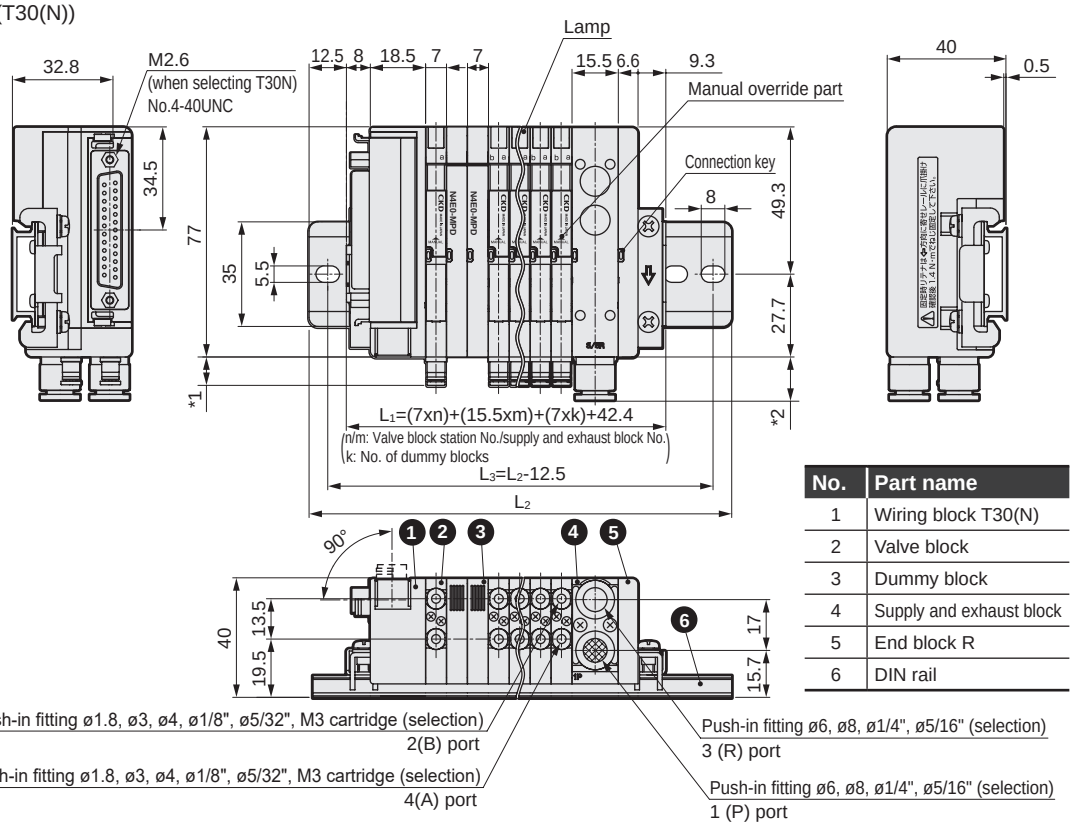
Dimensions

MN$^{3}_{4}$E00*-*-T30(N)*-*-*

● D-sub-connector left side (T30(N))



* D-sub-connector projection can be switched between upward and downward directions.
* For how to switch the connector direction, refer to page 895.



No.	Part name
1	Wiring block T30(N)
2	Valve block
3	Dummy block
4	Supply and exhaust block
5	End block R
6	DIN rail

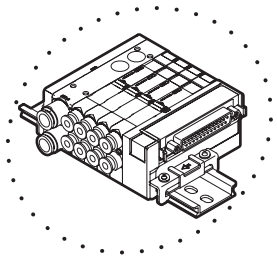
*1: Valve block fitting dimensions		
Push-in fitting	ø1.8	6.8
	ø3	9.5
	ø4	11.9
	ø1/8"	12.2
	ø5/32"	11.9
M3 Female thread		6.1

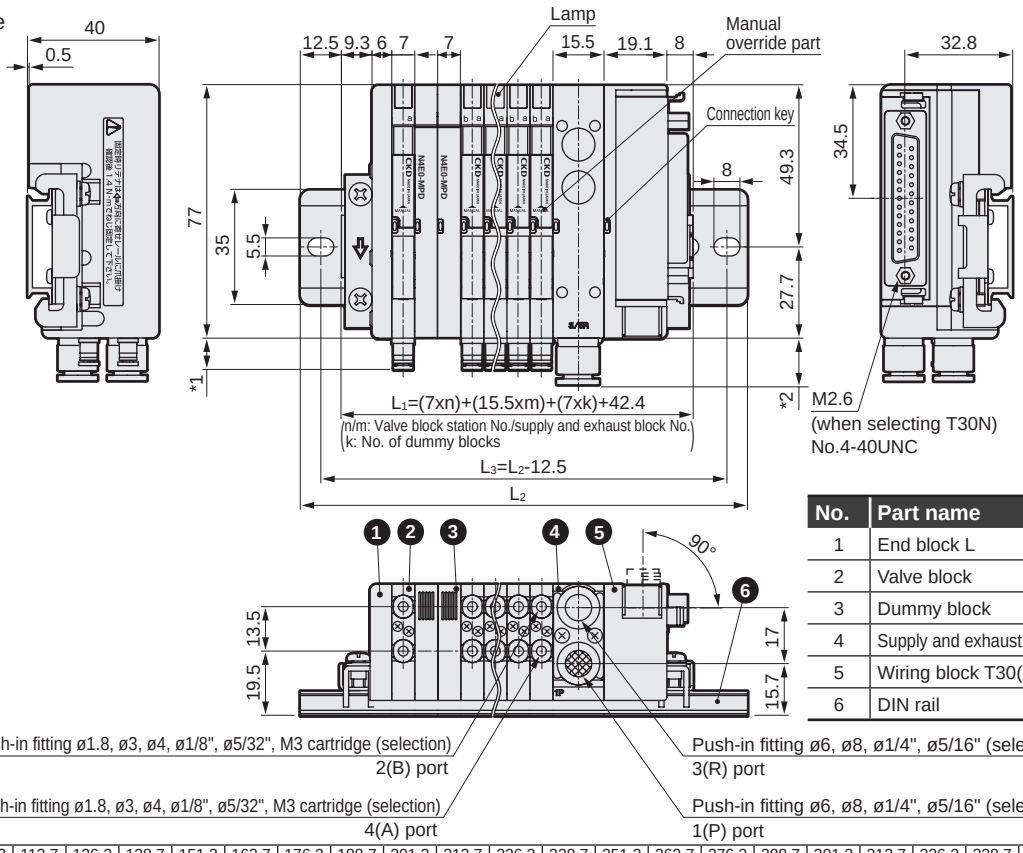
*2: Supply/exhaust block fit. dim.	
ø6	14
ø8	14.8
ø1/4"	15.1
ø5/16"	15.3

* For dimensions of the push-in L fittings (upward) for valve block and for supply and exhaust block, refer to page 895.

MN$^{3}_{4}$E00*-*-T30(N)R*-*-*

● D-sub-connector right side (T30(N)R)





No.	Part name
1	End block L
2	Valve block
3	Dummy block
4	Supply and exhaust block
5	Wiring block T30(N)R
6	DIN rail

*1: Valve block fitting dimensions		
Push-in fitting	ø1.8	6.8
	ø3	9.5
	ø4	11.9
	ø1/8"	12.2
	ø5/32"	11.9
M3 Female thread		6.1

*2: Supply/exhaust block fit. dim.	
ø6	14
ø8	14.8
ø1/4"	15.1
ø5/16"	15.3

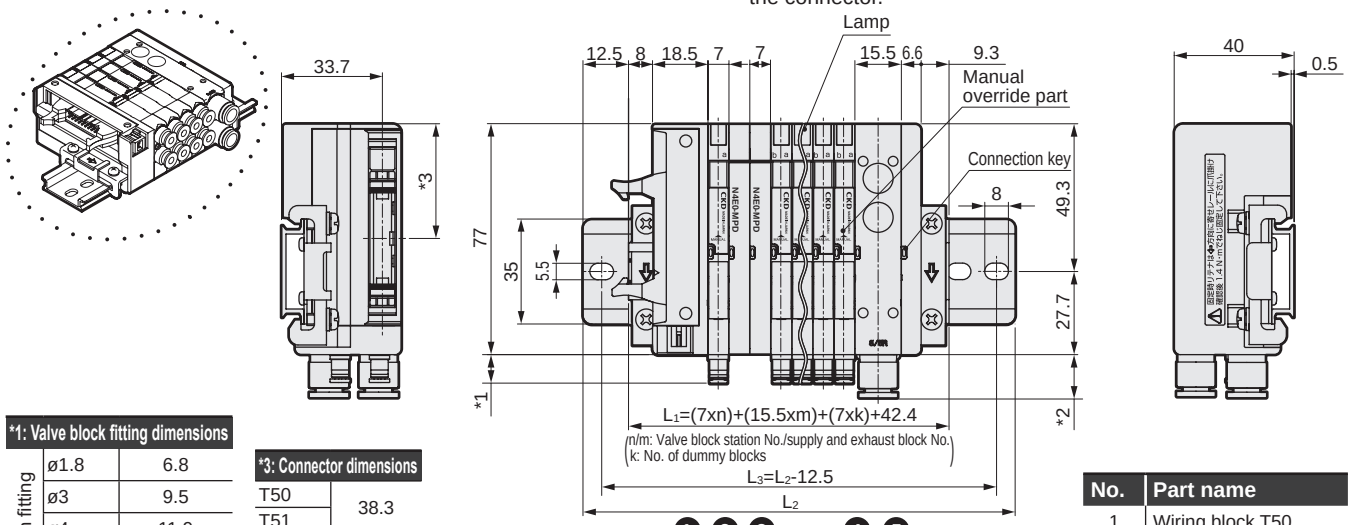
Manifold length L1 mm	76.2 or less	88.7 or less	101.2 or less	113.7 or less	126.2 or less	138.7 or less	151.2 or less	163.7 or less	176.2 or less	188.7 or less	201.2 or less	213.7 or less	226.2 or less	238.7 or less	251.2 or less	263.7 or less	276.2 or less	288.7 or less	301.2 or less	313.7 or less	326.2 or less	338.7 or less	351.2 or less
Mounting rail length L2 mm	100	112.5	125	137.5	150	162.5	175	187.5	200	212.5	225	237.5	250	262.5	275	287.5	300	312.5	325	337.5	350	362.5	375
Mounting rail pitch L3 mm	87.5	100	112.5	125	137.5	150	162.5	175	187.5	200	212.5	225	237.5	250	262.5	275	287.5	300	312.5	325	337.5	350	362.5

Dimensions

MN3/4E00*-*-T50*-*-*

● Flat cable connector left side (T50)

* T51, T52 and T53 are also available. Dimensions are the same as T50. Refer to *3: Connector dimensions for dimensions of the connector.



*1: Valve block fitting dimensions		
Push-in fitting	ø1.8	6.8
	ø3	9.5
	ø4	11.9
	ø1/8"	12.2
	ø5/32"	11.9
M3 Female thread		6.1

*3: Connector dimensions	
T50	38.3
T51	
T52	32.0
T53	34.5

*2: Supply/exhaust block fit. dim.	
ø6	14
ø8	14.8
ø1/4"	15.1
ø5/16"	15.3

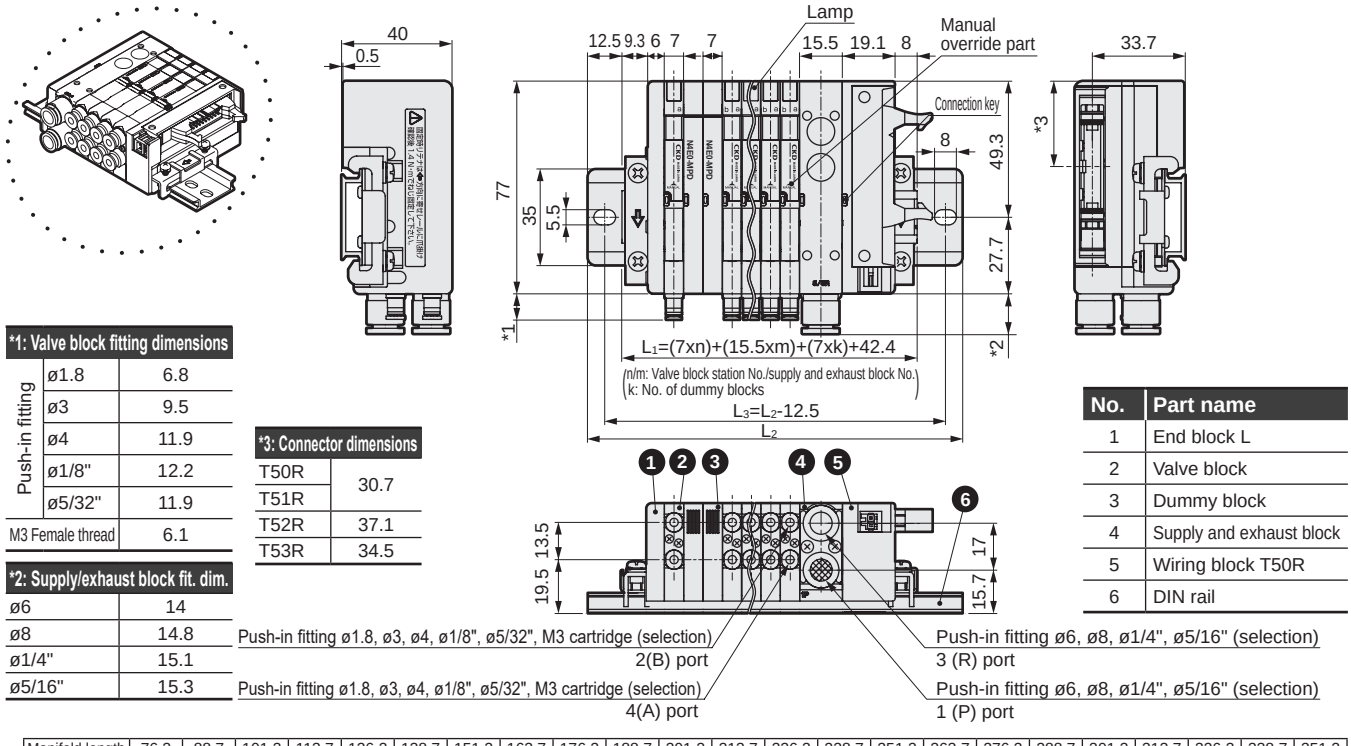
No.	Part name
1	Wiring block T50
2	Valve block
3	Dummy block
4	Supply and exhaust block
5	End block R
6	DIN rail

* For dimensions of the push-in L fittings (upward) for valve block and for supply and exhaust block, refer to page 895.

* A power feed connector can be used with T50 to supply power to the PLC output unit. Refer to page 895 for connector dimensions, to page 936 for how to wire, and to the wiring precautions.

MN3/4E00*-*-T50R*-*-*

● Flat cable connector right side (T50R)



*1: Valve block fitting dimensions		
Push-in fitting	ø1.8	6.8
	ø3	9.5
	ø4	11.9
	ø1/8"	12.2
	ø5/32"	11.9
M3 Female thread		6.1

*3: Connector dimensions	
T50R	30.7
T51R	
T52R	37.1
T53R	34.5

*2: Supply/exhaust block fit. dim.	
ø6	14
ø8	14.8
ø1/4"	15.1
ø5/16"	15.3

No.	Part name
1	End block L
2	Valve block
3	Dummy block
4	Supply and exhaust block
5	Wiring block T50R
6	DIN rail

Manifold length L1 mm	76.2 or less	88.7 or less	101.2 or less	113.7 or less	126.2 or less	138.7 or less	151.2 or less	163.7 or less	176.2 or less	188.7 or less	201.2 or less	213.7 or less	226.2 or less	238.7 or less	251.2 or less	263.7 or less	276.2 or less	288.7 or less	301.2 or less	313.7 or less	326.2 or less	338.7 or less	351.2 or less
Mounting rail length L2 mm	100	112.5	125	137.5	150	162.5	175	187.5	200	212.5	225	237.5	250	262.5	275	287.5	300	312.5	325	337.5	350	362.5	375
Mounting rail pitch L3 mm	87.5	100	112.5	125	137.5	150	162.5	175	187.5	200	212.5	225	237.5	250	262.5	275	287.5	300	312.5	325	337.5	350	362.5

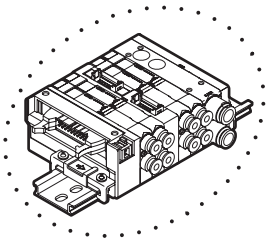
Dimensions

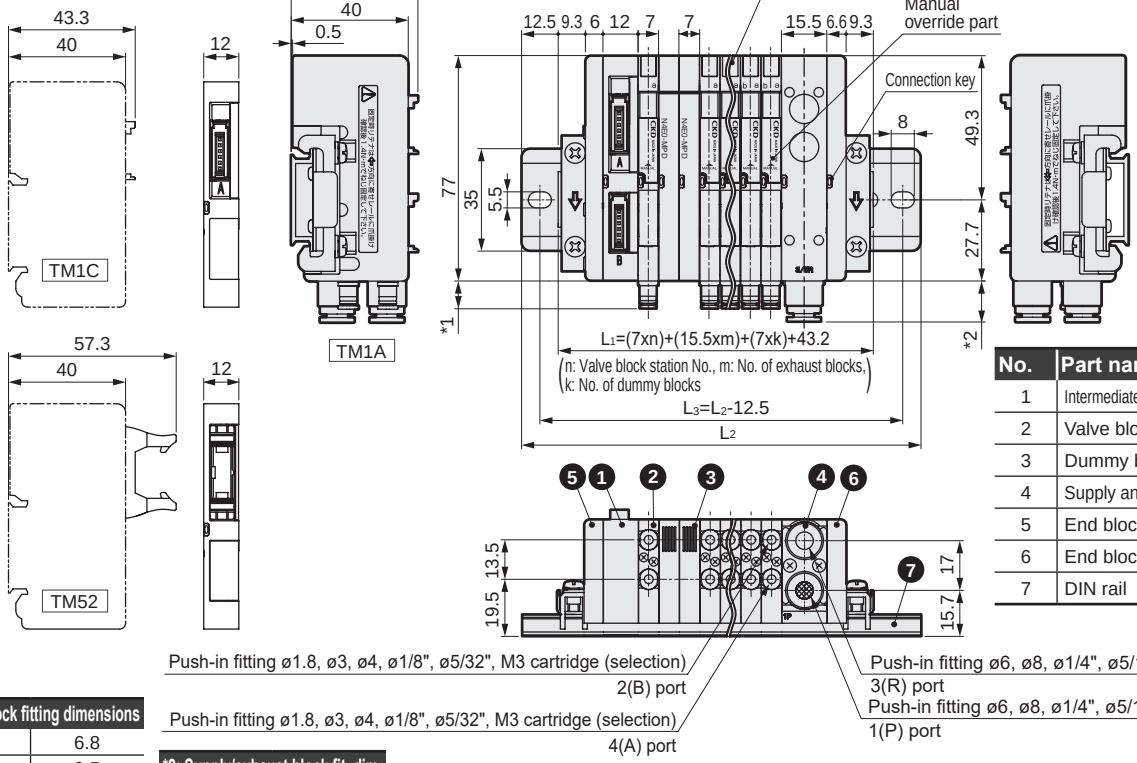
MN$^{3}_{4}$E00*-*-TM1$^{A}_{C}$*-*-*

● RITS connector intermediate wiring specifications (TM1$^{A}_{C}$)

MN$^{3}_{4}$E00*-*-TM52*-*-*

● 10-pin flat cable connector intermediate wiring specifications (TM52)





No.	Part name
1	Intermediate wiring block TM1A
2	Valve block
3	Dummy block
4	Supply and exhaust block
5	End block L
6	End block R
7	DIN rail

*1: Valve block fitting dimensions		
Push-in fitting	ø1.8	6.8
	ø3	9.5
	ø4	11.9
	ø1/8"	12.2
	ø5/32"	11.9
M3 Female thread		6.1

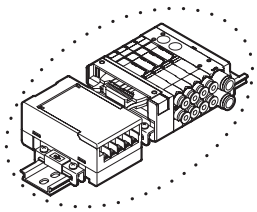
*2: Supply/exhaust block fit. dim.	
ø6	14
ø8	14.8
ø1/4"	15.1
ø5/16"	15.3

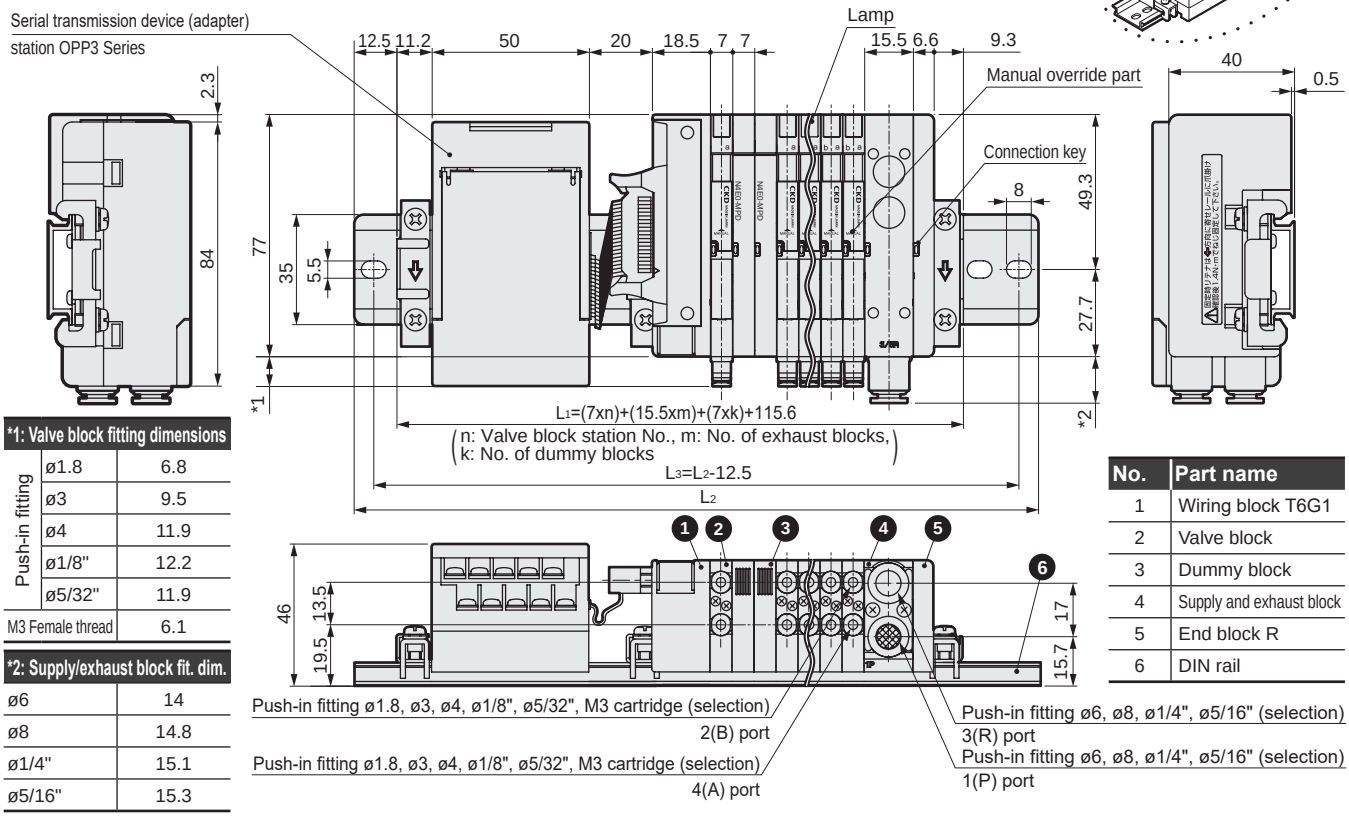
Manifold length L1 mm	76.2 or less	88.7 or less	101.2 or less	113.7 or less	126.2 or less	138.7 or less	151.2 or less	163.7 or less	176.2 or less	188.7 or less	201.2 or less	213.7 or less	226.2 or less	238.7 or less	251.2 or less	263.7 or less	276.2 or less	288.7 or less	301.2 or less	313.7 or less	326.2 or less	338.7 or less	351.2 or less
Mounting rail length L2 mm	100	112.5	125	137.5	150	162.5	175	187.5	200	212.5	225	237.5	250	262.5	275	287.5	300	312.5	325	337.5	350	362.5	375
Mounting rail pitch L3 mm	87.5	100	112.5	125	137.5	150	162.5	175	187.5	200	212.5	225	237.5	250	262.5	275	287.5	300	312.5	325	337.5	350	362.5

Dimensions

MN$^{3}_{4}$E00*-*-T6G1-*-*

● Serial transmission (T6G1)





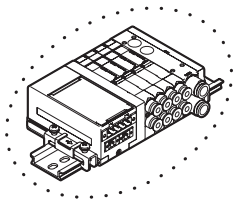
*1: Valve block fitting dimensions		
Push-in fitting	ø1.8	6.8
	ø3	9.5
	ø4	11.9
	ø1/8"	12.2
	ø5/32"	11.9
M3 Female thread		6.1

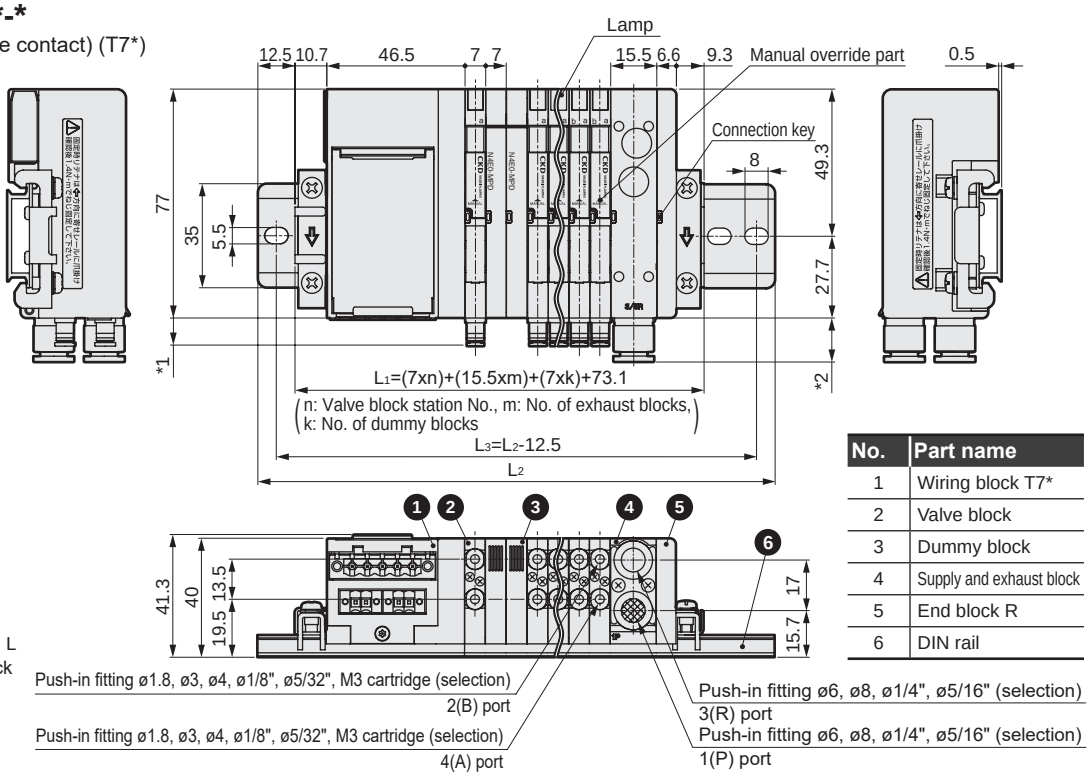
*2: Supply/exhaust block fit. dim.	
ø6	14
ø8	14.8
ø1/4"	15.1
ø5/16"	15.3

No.	Part name
1	Wiring block T6G1
2	Valve block
3	Dummy block
4	Supply and exhaust block
5	End block R
6	DIN rail

MN$^{3}_{4}$E00*-*-T7**-*-*

● Serial transmission (close contact) (T7*)





*1: Valve block fitting dimensions		
Push-in fitting	ø1.8	6.8
	ø3	9.5
	ø4	11.9
	ø1/8"	12.2
	ø5/32"	11.9
M3 Female thread		6.1

*2: Supply/exhaust block fit. dim.	
ø6	14
ø8	14.8
ø1/4"	15.1
ø5/16"	15.3

No.	Part name
1	Wiring block T7*
2	Valve block
3	Dummy block
4	Supply and exhaust block
5	End block R
6	DIN rail

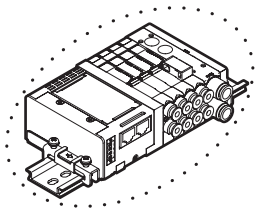
* For dimensions of the push-in L fittings (upward) for valve block and for supply and exhaust block, refer to page 895.

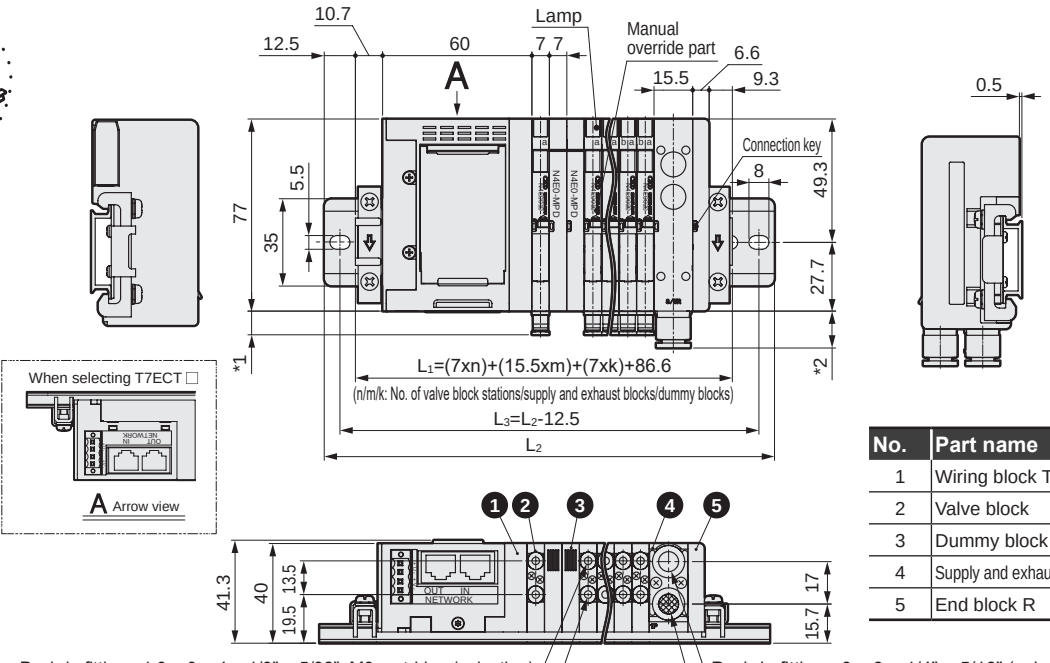
Manifold length L1 mm	76.2 or less	88.7 or less	101.2 or less	113.7 or less	126.2 or less	138.7 or less	151.2 or less	163.7 or less	176.2 or less	188.7 or less	201.2 or less	213.7 or less	226.2 or less	238.7 or less	251.2 or less	263.7 or less	276.2 or less	288.7 or less	301.2 or less	313.7 or less	326.2 or less	338.7 or less	351.2 or less
Mounting rail length L2 mm	100	112.5	125	137.5	150	162.5	175	187.5	200	212.5	225	237.5	250	262.5	275	287.5	300	312.5	325	337.5	350	362.5	375
Mounting rail pitch L3 mm	87.5	100	112.5	125	137.5	150	162.5	175	187.5	200	212.5	225	237.5	250	262.5	275	287.5	300	312.5	325	337.5	350	362.5

Dimensions

MN$\frac{3}{4}$E00*-*-T7**-*-*

● Serial transmission (T7EC□□)





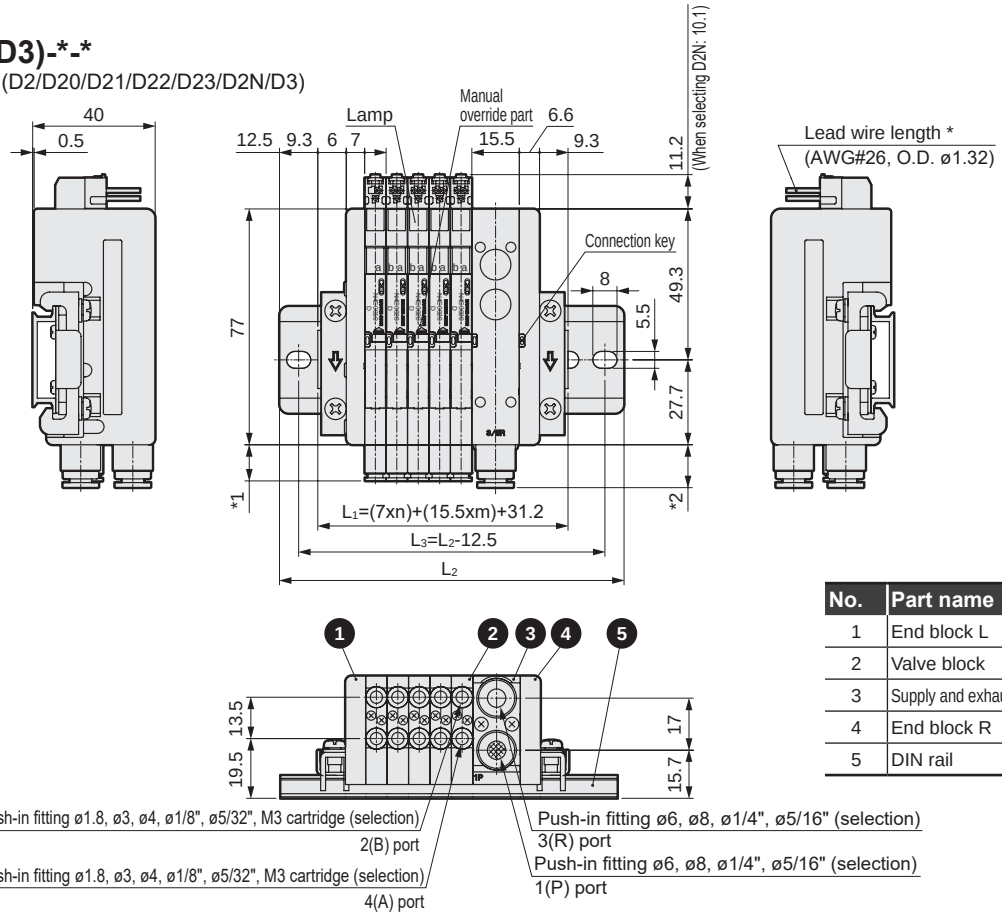
*1: Valve block fitting dimensions		
Push-in fitting	ø1.8	6.8
	ø3	9.5
	ø4	11.9
	ø1/8"	12.2
	ø5/32"	11.9
M3 Female thread		6.1

*2: Supply/exhaust block fit. dim.	
ø6	14
ø8	14.8
ø1/4"	15.1
ø5/16"	15.3

No.	Part name
1	Wiring block T7*
2	Valve block
3	Dummy block
4	Supply and exhaust block
5	End block R

MN$\frac{3}{4}$E00*-*-(D2 to D3)-*-*

● Individual wiring connector (D2/D20/D21/D22/D23/D2N/D3)



*1: Valve block fitting dimensions		
Push-in fitting	ø1.8	6.8
	ø3	9.5
	ø4	11.9
	ø1/8"	12.2
	ø5/32"	11.9
M3 Female thread		6.1

*2: Supply/exhaust block fit. dim.	
ø6	14
ø8	14.8
ø1/4"	15.1
ø5/16"	15.3

No.	Part name
1	End block L
2	Valve block
3	Supply and exhaust block
4	End block R
5	DIN rail

Manifold length L1 mm	63.7 or less	76.2 or less	88.7 or less	101.2 or less	113.7 or less	126.2 or less	138.7 or less	151.2 or less	163.7 or less	176.2 or less	188.7 or less	201.2 or less	213.7 or less	226.2 or less	238.7 or less	251.2 or less	263.7 or less	276.2 or less	288.7 or less	301.2 or less	313.7 or less	326.2 or less	338.7 or less	351.2 or less
Mounting rail length L2 mm	87.5	100	112.5	125	137.5	150	162.5	175	187.5	200	212.5	225	237.5	250	262.5	275	287.5	300	312.5	325	337.5	350	362.5	375
Mounting rail pitch L3 mm	75	87.5	100	112.5	125	137.5	150	162.5	175	187.5	200	212.5	225	237.5	250	262.5	275	287.5	300	312.5	325	337.5	350	362.5

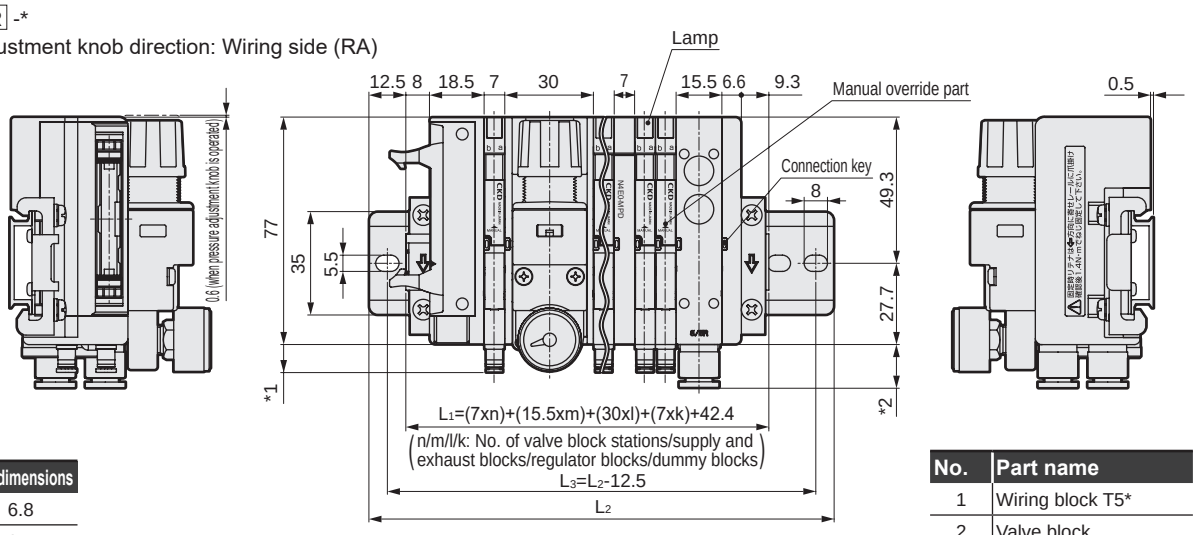
Dimensions

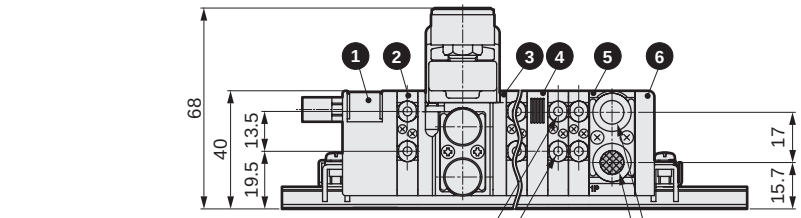
● Piping blocks (common for all types)

Regulator block

MN$\frac{3}{4}$E00*0-*- R -*

● Pressure adjustment knob direction: Wiring side (RA)





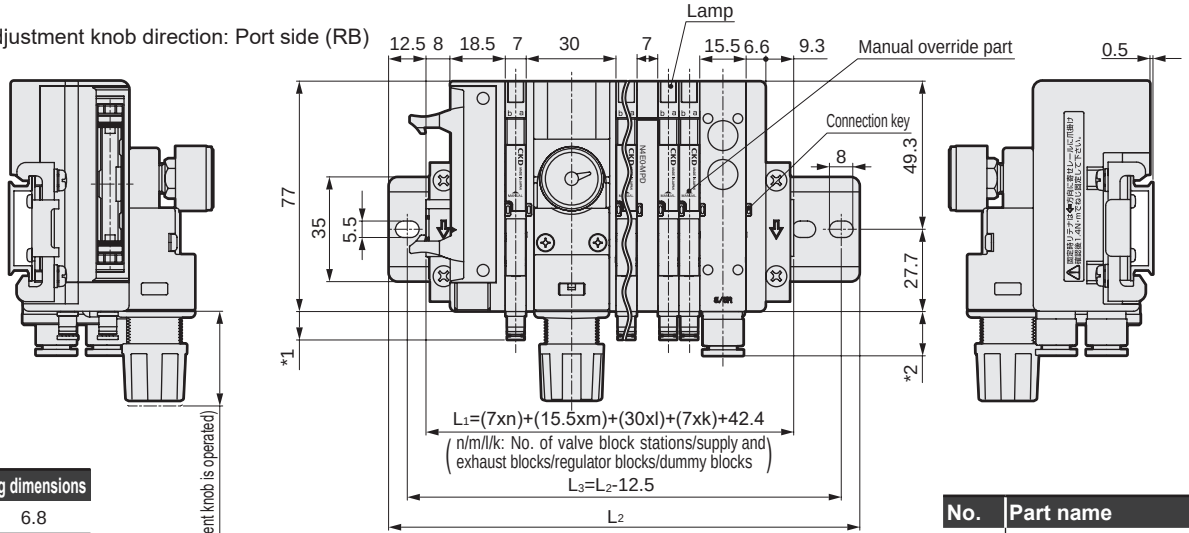
Push-in fitting ø1.8, ø3, ø4, ø1/8", ø5/32", M3 cartridge (selection)
2(B) port
Push-in fitting ø6, ø8, ø1/4", ø5/16" (selection)
3(R) port
Push-in fitting ø1.8, ø3, ø4, ø1/8", ø5/32", M3 cartridge (selection)
4(A) port
Push-in fitting ø6, ø8, ø1/4", ø5/16" (selection)
1(P) port

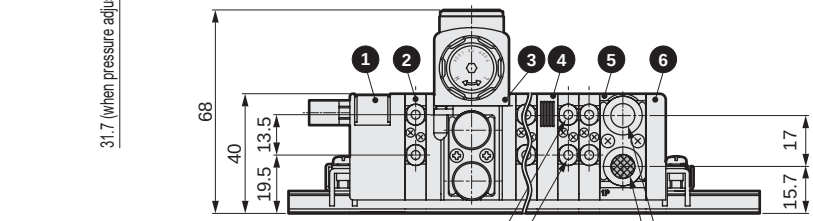
*1: Valve block fitting dimensions		
Push-in fitting	ø1.8	6.8
	ø3	9.5
	ø4	11.9
	ø1/8"	12.2
	ø5/32"	11.9
M3 Female thread		6.1

*2: Supply/exhaust block fit. dim.	
ø6	14
ø8	14.8
ø1/4"	15.1
ø5/16"	15.3

No.	Part name
1	Wiring block T5*
2	Valve block
3	Regulator block
4	Dummy block
5	Supply and exhaust block
6	End block R

● Pressure adjustment knob direction: Port side (RB)





Push-in fitting ø1.8, ø3, ø4, ø1/8", ø5/32", M3 cartridge (selection)
2(B) port
Push-in fitting ø6, ø8, ø1/4", ø5/16" (selection)
3(R) port
Push-in fitting ø1.8, ø3, ø4, ø1/8", ø5/32", M3 cartridge (selection)
4(A) port
Push-in fitting ø6, ø8, ø1/4", ø5/16" (selection)
1(P) port

*1: Valve block fitting dimensions		
Push-in fitting	ø1.8	6.8
	ø3	9.5
	ø4	11.9
	ø1/8"	12.2
	ø5/32"	11.9
M3 Female thread		6.1

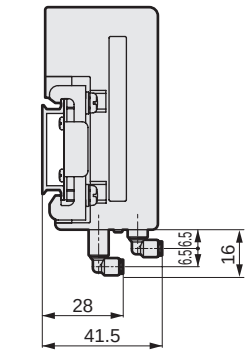
*2: Supply/exhaust block fit. dim.	
ø6	14
ø8	14.8
ø1/4"	15.1
ø5/16"	15.3

No.	Part name
1	Wiring block T5*
2	Valve block
3	Regulator block
4	Dummy block
5	Supply and exhaust block
6	End block R

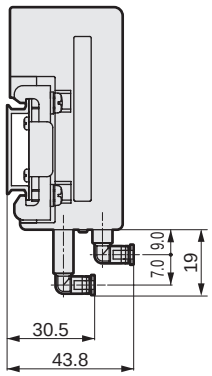
Dimensions

● Piping blocks (common for all types)

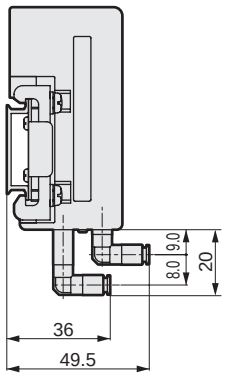
For fiber tube
Push-in fitting (upward)
● ø1.8 (CL18)



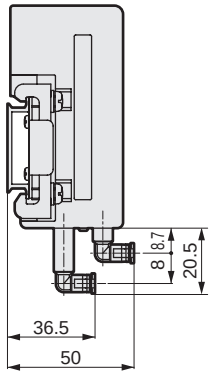
Push-in fitting (upward)
● ø3 (CL3)



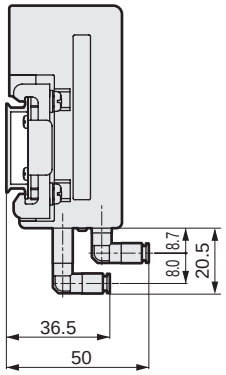
Push-in fitting (upward)
● ø4 (CL4)



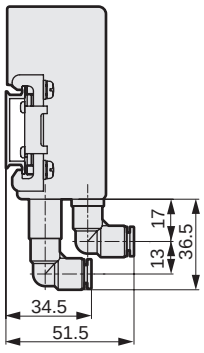
Push-in fitting (upward)
● ø1/8" (CL3N)



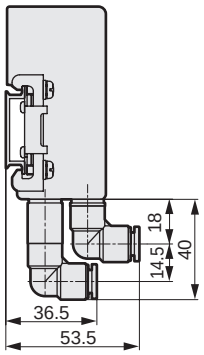
Push-in fitting (upward)
● ø5/32" (CL4N)



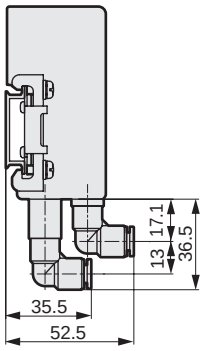
Supply and exhaust block
Push-in L fitting (upward)
● ø6 (CL6)



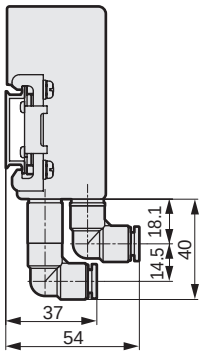
● ø8 (CL8)



● ø1/4" (CL6N)

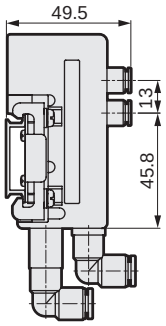


● ø5/16" (CL8N)

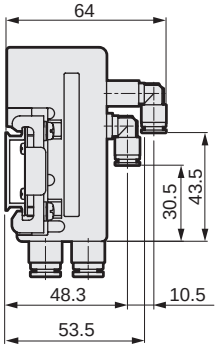


Supply and exhaust block for external pilot

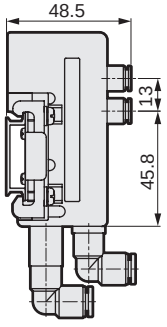
● Upward piping



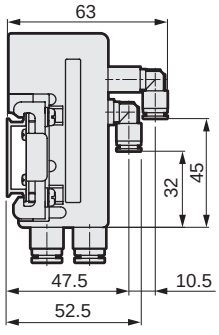
● Lateral piping



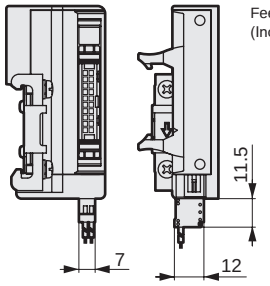
● Upward piping
(Inch fitting specifications)



● Lateral piping
(Inch fitting specifications)



● Dimensions with T50 power supply connector

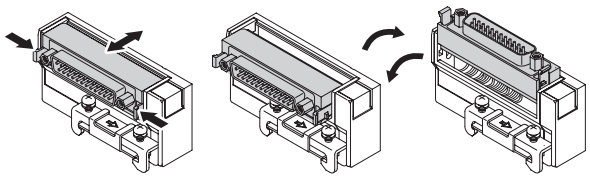


Feed connector
(Included with product)

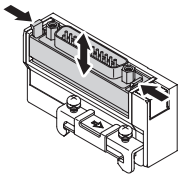
Applicable wire
AWG28-20

● D-sub-connector (T30(N)/T30(N)R): How to switch the connector direction

Usage in a horizontal state



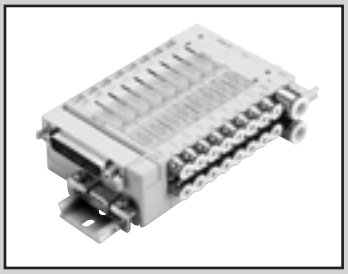
Usage in a vertical state



Hold the lever and pull the connector out horizontally. Push in the connector horizontally for storage. (Must be fixed.)

Rotate the connector. Fix the connector in the horizontal or vertical state during use.

Hold the lever and pull the connector out vertically. Push in the connector horizontally for storage. (Must be fixed.)



Reduced wiring block manifold
Pilot operated 3, 4-port valve

MN3E0/MN4E0 Series

Common specifications

Item		Description
Manifold method		Block manifolds
Manifold		Common supply/exhaust Exhaust check valve built-in (*1)
Working fluid		Compressed air
Valve and operation		Pilot operated soft spool valve
Max. working pressure	MPa	0.7
Min. working pressure	MPa	0.2
Proof pressure	MPa	1.05
Ambient temperature	°C	5 to 55
Fluid temperature	°C	5 to 55
Lubrication		Not required (*2)
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 environments
Manual override		Lock/Non-locking common or dedicated Non-lock

*1: Check valve block back pressure from adjacent air Components, etc. However, the structure does not permit continuous pressure holding, so do not use for purposes other than blocking back pressure.

Electrical specifications

Item		Description
Rated voltage V		12, 24 DC
Voltage fluctuation range		±10% (When using serial transmission 10%, 5%)
Holding current A	24 VDC	0.025(0.013) (*3)
	12 VDC	0.05(0.025) (*3)
Power consumption W	24 VDC	0.6(0.3) (*3)
	12 VDC	
Thermal class		B
Indicator		LED

*2:As this product has non-lubrication specifications, adding oil may cause leakage of the grease initially sealed in, which may prevent the product from displaying its maximum performance.

*3:Values shown in ( ) are for low exoergic/energy circuit type. As well, when using the valve block with individual power supply function (AUX), type with low exoergic/energy circuit, energizing is limited to the plus common.

Individual specifications

Item \ Port		3-port valve	4-port valve	Two 3-port valves integrated *1
Port size	A/Port B	Push-in fitting ø1.8, ø4, ø6, M5, fiber tube		
	P/Port R	ø6, ø8 push-in fitting		
	External pilot port	ø6 push-in fitting		-

*1: The two 3-port valves integrated type uses main pressure to operate the valving element, and therefore cannot be used with external pilot. Check for sufficient supply air flow that the supply pressure does not drop below the min. working pressure due to the operation of the connected load (air operated valve), etc.

Max. number of stations energized by manifold

● T3 □ /T5 □ /TM □ /T6G1

Item		MN3E0/MN4E0								
		T30(N)	T50	T51	T52	T53	TM1A	TM1C	TM52	T6G1
Max. station No.	Standard wiring	24 stations	16 stations	18 stations	8 stations	24 stations	10 stations	5 stations	8 stations	16 stations
	Double wiring	12 stations	8 stations	9 stations	4 stations	12 stations	5 stations	2 stations	4 stations	8 stations
Max. number of solenoids		24 points	16 points	18 points	8 points	24 points	10 points	5 points	8 points	16 points

● T7 □

Item		MN3E00/MN4E00							
		T7D1	T7D2	T7G1	T7G2	T7N1	T7N2	T7EC□1	T7EC□2
Max. station No.	Standard wiring	16 stations	32 stations	16 stations	32 stations	16 stations	32 stations	16 stations	32 stations
	Double wiring	8 stations	16 stations	8 stations	16 stations	8 stations	16 stations	8 stations	16 stations
Max. number of solenoids		16 points	32 points	16 points	32 points	16 points	32 points	16 points	32 points

Performance/characteristics by model

Item \ Port		3-port valve	4-port valve	Two 3-port valves integrated
Response time (*1) ms	2-position single	20 or less	20 or less	12 or less
	Double	12 or less	12 or less	-
	3-position	-	20 or less	-

*1: The response times are values with supply pressure of 0.5 MPa, without lubrication.

Flow characteristics

			C[dm³/(s·bar)]	b
3-port valve	2-position		0.54	0.12
4-port valve	2-position		0.54	0.12
	3-position	All ports closed	0.50	0.08
		A/B/R connection	0.54	0.12
		P/A/B connection	0.50	0.11
Two 3-port valves integrated	2-position		0.50	0.16

*1: Effective cross-sectional area S and sonic conductance C are converted as S ≈ 5.0 x C.
*2: Value for ø4 push-in fitting

Device unit specifications

Item		T6G1 *1	T7D1 *2 T7D2	T7G1 *1 T7G2	T7N1 T7N2	T7EC□1 T7EC□2
Power supply voltage	Unit side	24 VDC ±10%	24 VDC ±10%			
	Valve side	24 VDC + 10% -5%	24 VDC + 10% -5%			
	Unit side	-	11 to 25 VDC	-		
Current consumption	Unit side	100 mA or less (When all points output ON)	T7D1: 60 mA or less, T7D2: 85 mA or less (When all points output ON)	T7G1: 65 mA or less, T7G2: 90 mA or less (When all points output ON)	T7N1: 40 mA or less T7N2: 50 mA or less (When all points output ON)	120 mA or less (When all points output ON)
	Valve side	15 mA or less (when all points OFF)	15 mA or less (when all points OFF)			
	Unit side	-	50 mA or less	-		
No. of I/O points		16 points	T7D1: 16 points T7D2: 32 points	T7G1: 16 points T7G2: 32 points	T7N1: 16 points T7N2: 32 points	T7EC□1: 16 points T7EC□2: 32 points
Occupied number		1 station	T7D1: 2 bytes T7D2: 4 bytes	T7G1: 1 station T7G2: 1 station	T7N1: Output 16 points T7N2: Output 32 points	T7EC□1: 1 address T7EC□2: 1 address

*1: CC-Link is Ver. 1.10.
*2: Contact CKD for information on the EDS file. (EDS file: A text file of parameters for communication with various companies' master units)

Weight

Wiring block (g)		D-sub-connector T30(N)	Flat cable connector T5*	Intermediate wiring block TM1A	TM1C	TM52	Serial transmission T6G1	T7*	T7EC*
		67	59	32	32	34	205	128	145
Supply and exhaust block (g)		Q/QZ	QK	QKZ		QX		QKX	
	Fitting Lateral	64	69	79		56		61	
	Fitting Upward	90	94	98		62		66	
Valve block (g)		2-position single	2-position double	3-position		Two 3-port valves integrated			
	Fitting Lateral	47.5	52	53.5		52			
	Fitting Upward	54.5	59	60.5		59			
Dummy block (g)		MPS/MPD							
		20							
Regulator block (g) *1		-							
		124							
End block (g)		ER/EL							
		40							
DIN rail (g)		-							
		0.19 g/mm							

*1: The values may differ slightly based on the regulator block specifications.

How to order manifold

D sub/flat cable connector

* Refer to page 902 for serial transmission.

● Discrete valve block

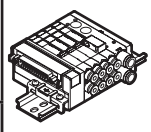
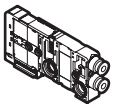
N 3 E0 66 0 - C4 —— M D2 [ ] F —— 3

● Block manifolds

M N 4 E0 1 0 - C4 - R - M T53 D2 W F - 5 - 3

- DIN rail Mounting method
- A Valve type
- B Solenoid position
- C Port size
- D Adjustment function
- E Manual override
- F Wiring method
- Individual wiring
- G Terminal/Connector pin array
- H Option
- I Station No.
- J Voltage

***Be sure to fill in the "Manifold specifications sheet" (page 957).**

Type	
Block manifolds	Discrete valve block
	

Code	Description			Block manifolds	Discrete valve block
A Valve type					
3	3-port valve or two 3-port valves integrated			●	●
4	4-port valve or 3, 4-port valve mix			●	●
B Solenoid position (*10)					
1	3-port valve	Single NC self-reset	(Differential pressure spring return)	●	●
11	3-port valve	Single NO self-reset	(Differential pressure spring return)	●	●
2	3-port valve	Double NC self-hold		●	●
21	3-port valve	Double NO self-hold		●	●
66	Two 3-port valves integrated (*1)	A side valve: NC self-reset B side valve: NC self-reset	(Differential pressure return) (Differential pressure spring return)	●	●
66S	Two 3-port valves integrated (*1)	A side valve: NC self-reset B side valve: NO self-reset	(Differential pressure return) (Differential pressure spring return)	●	●
67	Two 3-port valves integrated (*1)	A side valve: NO self-reset B side valve: NC self-reset	(Differential pressure return) (Differential pressure spring return)	●	●
67S	Two 3-port valves integrated (*1)	A side valve: NO self-reset B side valve: NO self-reset	(Differential pressure return) (Differential pressure spring return)	●	●
76	Two 3-port valves integrated (*1)	A side valve: NO self-reset B side valve: NC self-reset	(Differential pressure return) (Differential pressure spring return)	●	●
76S	Two 3-port valves integrated (*1)	A side valve: NO self-reset B side valve: NC self-reset	(Differential pressure return) (Differential pressure spring return)	●	●
77	Two 3-port valves integrated (*1)	A side valve: NO self-reset B side valve: NO self-reset	(Differential pressure return) (Differential pressure spring return)	●	●
77S	Two 3-port valves integrated (*1)	A side valve: NO self-reset B side valve: NO self-reset	(Differential pressure return) (Differential pressure spring return)	●	●
1	4-port valve	2-position single self-reset	(Differential pressure spring return)	●	●
2	4-port valve	2-position double self-hold		●	●
3	4-port valve	3-position all ports closed		●	●
4	4-port valve	3-position A/B/R connection		●	●
5	4-port valve	3-position P/A/B connection		●	●
8	Mix manifold			●	
C Port size					
CF	ø1.8 barbed fitting (compatible tube UP-9102-**)			●	●
C18	ø1.8 push-in fitting lateral (compatible tube UP-9402-**)			●	●
CL18	ø1.8 push-in fitting upward (compatible tube UP-9402-**)			●	●
C4	ø4 push-in fitting lateral			●	●
CL4	ø4 push-in fitting upward			●	●
C6	ø6 push-in fitting lateral			●	●
CL6	ø6 push-in fitting upward			●	●
M5	M5#Thread(with rotation-stop)			●	●
CX	Mix push-in fitting (*12)			●	●
C3N	ø1/8" push-in fitting lateral			●	●
C4N	ø5/32" push-in fitting lateral			●	●
CL3N	ø1/8" push-in fitting Up			●	●
CL4N	ø5/32" push-in fitting Up			●	●
CXN	Mix push-in fitting (*12)			●	●
D Adjustment function					
Blank	Without regulator block			●	
R	Regulator block equipped manifold (*2)(*3)			●	
E Manual override					
Blank	Locking/non-locking common (with manual cover)			●	●
M	Manual override for non-locking (with manual cover)			●	●
F Wiring method					
Refer to the following page for the wiring method.				●	
G Terminal/connector pin array					
Blank	Standard wiring			●	●
W	Double wiring (*4))(*5)			●	●
H Option					
Blank	No			●	●
E	Low exoergic/energy circuit type (*6)			●	●
U	Built-in individual power supply function (AUX) type (*6)(*7)			●	●
A	Ozone-proof product			●	●
F	Port A/B filter integrated (*8)			●	●
I Station No.					(*11)
1	1 stations			●	
to	to				
24	24 stations (*9)				
J Voltage					
3	24 VDC			●	●
4	12 VDC			●	●

・For model No. of the cable with D-sub-connector, refer to page 935.

Precautions for model No. selection

*1: The two 3-port valves integrated type cannot be used with the external pilot. Consult with CKD for other working conditions.

*2: The two 3-port valves integrated resets the main valve with the main pressure, so if there is a difference between the pilot pressure and main pressure, the response time may be delayed.

*3: Check that the main pressure supplied to the valve block with two 3-port valves integrated is not higher than the pilot pressure, and that the main pressure does not drop below 0.2MPa.

***4: Check the connector pin array (example) given on pages 934 to 941 for the double wiring specifications.**
When ordering individual valve blocks, the double wiring designation is limited to the 4-position single solenoid for the 2-port valve and to the 3-position single solenoid for the 2-port valve.

*5: Double wiring is not available for discrete individual wiring valve block.

*6: Energizing is limited to the plus common. Also, "E" and "U" cannot be selected together.

*7: Individual wiring,"U"cannot be selected together.

*8: A filter (for preventing entry of foreign matter) is incorporated in the supply and exhaust block's port P.

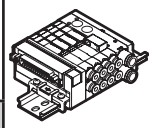
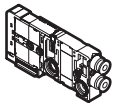
***9: Differs depending on the specifications. Refer to page 896.**

***10: For specifications of the self-reset, refer to the precautions on page 959.**
To include a dummy block, select mix manifold.

*11: A dummy block is counted in the station No.

*12: Inch fittings cannot be mixed with metric fittings and M5 female threads.

[Wiring method list]

Code	Description		Type: Block manifolds	Type: Discrete valve block
				
Ⓕ Wiring method				
T30(N)	25-pin D-sub-connector Left-sided spec.		●	
T30(N)R	25-pin D-sub-connector Right-sided spec.		●	
T50	20-pin flat cable connector Left-sided spec. (with power supply terminal) (*13)		●	
T50R	20-pin flat cable connector Right-sided spec. (with power supply terminal) (*13)		●	
T51	20-pin flat cable connector Left-sided spec.		●	
T51R	20-pin flat cable connector Right-sided spec.		●	
T52	10-pin flat cable connector Left-sided spec.		●	
T52R	10-pin flat cable connector Right-sided spec.		●	
T53	26-pin flat cable connector Left-sided spec.		●	
T53R	26-pin flat cable connector Right-sided spec.		●	
TM1A	Intermediate wiring block RITS connector 6P×2 pieces (*14)		●	
TM1C	Intermediate wiring block RITS connector 6P (*14)		●	
TM52	Intermediate wiring block 10-pin flat cable connector		●	
TX	Wiring block mix(*15) (*16) (*17)		●	
Blank	Valve block for reduced wiring			●
D2	Individual wiring	D-connector 300 mm	●	●
D20	Individual wiring	D-connector 500 mm	●	●
D21	Individual wiring	D-connector 1000 mm	●	●
D22	Individual wiring	D-connector 2000 mm	●	●
D23	Individual wiring	D-connector 3000 mm	●	●
D2N	Individual wiring	D-connector without socket	●	●
D3	Individual wiring	D-connector with socket/terminal	●	●

*13: T50 and T50R with power supply terminal can be combined only with T50R and T50 respectively.
*14: RITS connector 6P (1473562-6) Tyco Electronics Japan G.K.
*15: Request 2 pcs in the manifold specifications sheet. Contact CKD for 3 pcs. or more.
*16: Individual wiring is not available for the TX wiring method.
*17: For the TX wiring method, the max. station No. is 24.
* Individual wiring: Individual wiring specification is available with valve blocks designated for it.

Ozone-proof specifications

Select option “A” for Item Ⓗ in How to order on pages 898 and 902.

Clean-room specifications (Catalog No. CB-033SA)

● Anti-dust generation structure for use in cleanrooms

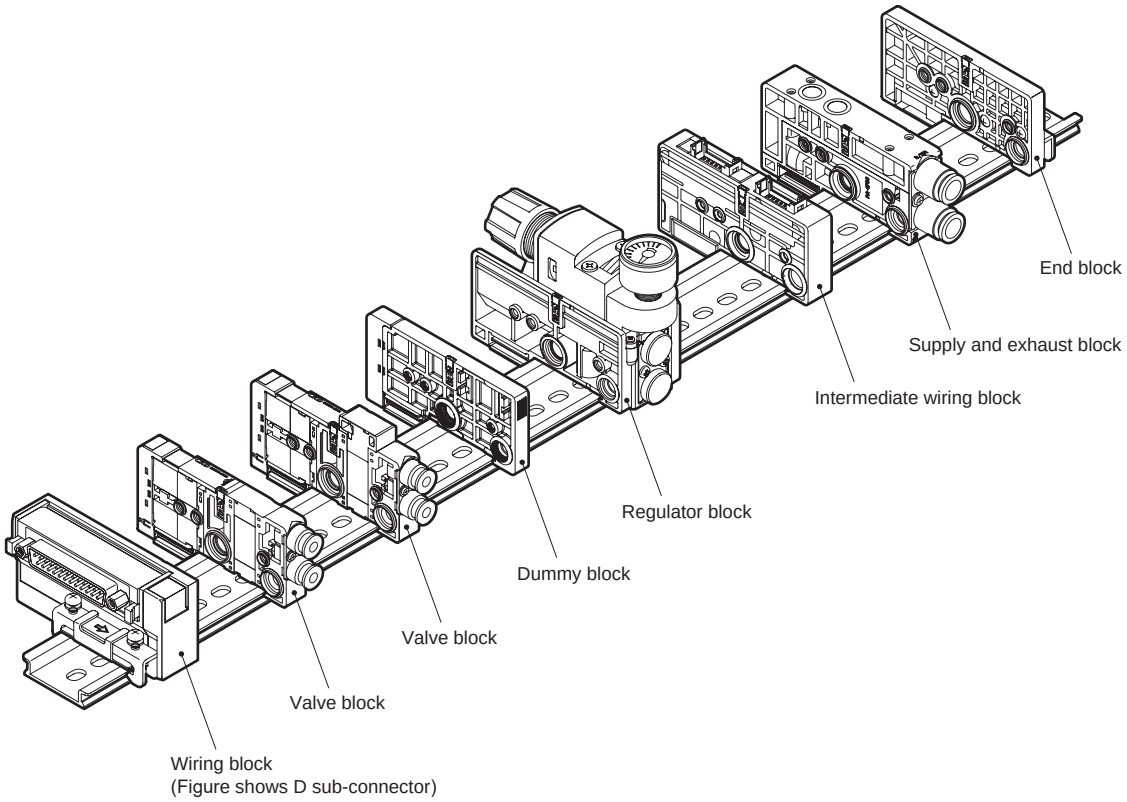
** -Voltage- **P70**

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".

Manifold components explanation and parts list



Example of main component model No. (Refer to pages 922 to 932 for details)

Part name	Model No. (example)	Part name	Model No. (example)
Wiring block	N4E0-T30	Regulator block	N4E0-RA-RL
Valve block	N4E020-C4-3	Intermediate wiring block	N4E0-TM1A
	N4E030-C4-3	Supply and exhaust block	N4E0-Q-8
Dummy block	N4E0-MPD	End block	N4E0-ER

Related parts list

Part name	Model No. (example)	Part name	Model No. (example)
Cartridge push-in fitting and related parts	N4E0-JOINT-C18	Cartridge push-in fitting and related parts	N4E0-JOINT-CF
	N4E0-JOINT-C4		N4E0-JOINT-CPG
	N4E0-JOINT-C6		
	N4E0-JOINT-CL18		
	N4E0-JOINT-CL4		
	N4E0-JOINT-CL6		
	N4E0-JOINT-C3N		
	N4E0-JOINT-C4N		
	N4E0-JOINT-CL3N		
	N4E0-JOINT-CL4N		

MEMO

How to order manifold Serial transmission

* Refer to page 898 for the D-sub-connector/flat cable connector.

● Discrete valve block

N 3 E0 66 0- C4 —— M D2 ( ) F —— 3

● Block manifolds

M N 4 E0 1 0- C4 - R - M T6G1 D2 W F - 5 - 3

- N: DIN rail Mounting method
- 4: A Valve type
- 1: B Solenoid position
- C4: C Port size
- R: D Adjustment function
- M: E Manual override
- T6G1: F Wiring connection method (serial transmission)
- D2: G Terminal/Connector pin array
- W: Individual wiring
- F: H Option
- 5: I Station No.
- 3: J Voltage

* Be sure to fill in the "Manifold specifications sheet" (page 957).

Code	Description	Type: Block manifolds	Type: Discrete valve block
A Valve type			
3	3-port valve or two 3-port valves integrated	●	●
4	4-port valve or 3, 4-port valve mix	●	●
B Solenoid position (*10)			
1	3-port valve: Single NC self-reset (Differential pressure spring return)	●	●
11	3-port valve: Single NO self-reset (Differential pressure spring return)	●	●
2	3-port valve: Double NC self-hold	●	●
21	3-port valve: Double NO self-hold	●	●
66	Two 3-port valves integrated (*1): A side valve: NC self-reset B (Differential pressure return)	●	●
66S	Two 3-port valves integrated (*1): side valve: NC self-reset (Differential pressure spring return)	●	●
67	Two 3-port valves integrated (*1): A side valve: NC self-reset B (Differential pressure return)	●	●
67S	Two 3-port valves integrated (*1): side valve: NO self-reset (Differential pressure spring return)	●	●
76	Two 3-port valves integrated (*1): A side valve: NO self-reset B (Differential pressure return)	●	●
76S	Two 3-port valves integrated (*1): side valve: NC self-reset (Differential pressure spring return)	●	●
77	Two 3-port valves integrated (*1): A side valve: NO self-reset B (Differential pressure return)	●	●
77S	Two 3-port valves integrated (*1): side valve: NO self-reset (Differential pressure spring return)	●	●
1	4-port valve: 2-position single self-reset (Differential pressure spring return)	●	●
2	4-port valve: 2-position double self-hold	●	●
3	4-port valve: 3-position all ports closed	●	●
4	4-port valve: 3-position A/B/R connection	●	●
5	4-port valve: 3-position P/A/B connection	●	●
8	Mix manifold	●	
C Port size			
CF	ø1.8 barbed fitting (compatible tube UP-9102-**)	●	●
C18	ø1.8 push-in fitting lateral (compatible tube UP-9402-**)	●	●
CL18	ø1.8 push-in fitting upward (compatible tube UP-9402-**)	●	●
C4	ø4 push-in fitting lateral	●	●
CL4	ø4 push-in fitting upward	●	●
C6	ø6 push-in fitting lateral	●	●
CL6	ø6 push-in fitting upward	●	●
M5	M5#Thread(with rotation-stop)	●	●
CX	Mix push-in fitting (*12)	●	●
C3N	ø1/8" push-in fitting lateral	●	●
C4N	ø5/32" push-in fitting lateral	●	●
CL3N	ø1/8" push-in fitting upward	●	●
CL4N	ø5/32" push-in fitting upward	●	●
CXN	Mix push-in fitting (*12)	●	●
D Adjustment function			
Blank	Without regulator block	●	
R	Regulator block equipped manifold (*2) (*3)	●	
E Manual override			
Blank	Locking/non-locking common (with manual cover)	●	●
M	Manual override for non-locking (with manual cover)	●	●
F Wiring method			
Refer to the following page for the wiring method.		●	
G Terminal/connector pin array			
Blank	Standard wiring	●	●
W	Double wiring (*4)(*5)	●	●
H Option			
Blank	No	●	●
E	Low exoergic/energy circuit type (*6)	●	●
U	Built-in individual power supply function (AUX) type (*6)(*7)	●	●
A	Ozone-proof product	●	●
F	Port A/B filter integrated (*8)	●	●
I Station No.			(*11)
1	1 stations	●	
to	to		
32	32 stations (*9)		
J Voltage			
3	24 VDC	●	●

Precautions for model No. selection

*1: The two 3-port valves integrated type cannot be used with the external pilot. Consult with CKD for other working conditions.

*2: The two 3-port valves integrated type resets the main valve with the main pressure, so if there is a difference between the pilot pressure and main pressure, the response time may be delayed.

*3: Check that the main pressure supplied to the valve block with two 3-port valves integrated is not higher than the pilot pressure, and that the main pressure does not drop below 0.2 MPa.

***4: Check the connector pin array (example) given on pages 944 to 948 for the double wiring specifications.** When ordering individual valve blocks, the double wiring designation is limited to the 4-position single solenoid for the 2-port valve and to the 3-position single solenoid for the 2-port valve.

*5: Double wiring is not available for discrete individual wiring valve blocks.

*6: Energizing is limited to the plus common. Also, "E" and "U" cannot be selected together.

*7: "U" is not available for individual wiring.

*8: A filter (for preventing entry of foreign matter) is incorporated in the supply and exhaust block's port P.

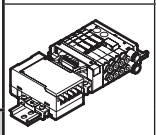
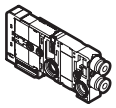
***9: Differs depending on the specifications. Refer to page 896.**

***10: For specifications of the self-reset, refer to the precautions on page 959.** When including dummy blocks,Select a mix manifold.

*11: A dummy block is counted in the station No.

*12: Inch fittings cannot be mixed with metric fittings and M5 female threads.

[Wiring method list]

Code	Description	Type: Block manifolds	Type: Discrete valve block
			
Ⓕ Wiring method			
T6G1	CC-Link 16 points	●	
T7D1	Close contact type DeviceNet 16 points	●	
T7D2	Close contact type DeviceNet 32 points	●	
T7G1	Close contact type CC-Link 16 points	●	
T7G2	Close contact type CC-Link 32 points	●	
T7N1	Close contact type S-LINK V 16 points	●	
T7N2	Close contact type S-LINK V 32 points	●	
T7EC1	Close contact EtherCAT 16 points (port side leadout)	●	
T7EC2	Close contact EtherCAT 32 points (port side leadout)	●	
T7ECT1	Close contact EtherCAT 16 points (wiring side leadout)	●	
T7ECT2	Close contact EtherCAT 32 points (wiring side leadout)	●	
Blank	Valve block for reduced wiring		●
D2	Individual wiring: D-connector Lead wire length 300 mm	●	●
D20	Individual wiring: D-connector Lead wire length 500 mm	●	●
D21	Individual wiring: D-connector Lead wire length 1000 mm	●	●
D22	Individual wiring: D-connector Lead wire length 2000 mm	●	●
D23	Individual wiring: D-connector Lead wire length 3000 mm	●	●
D2N	Individual wiring: D-connector without lead wire without socket	●	●
D3	Individual wiring: D-connector without lead wire with socket/terminal	●	●

Ozone-proof specifications

Select option “A” for Item Ⓗ in How to order on pages 898 and 902.

Clean-room specifications (Catalog No. CB-033SA)

● Anti-dust generation structure for use in cleanrooms

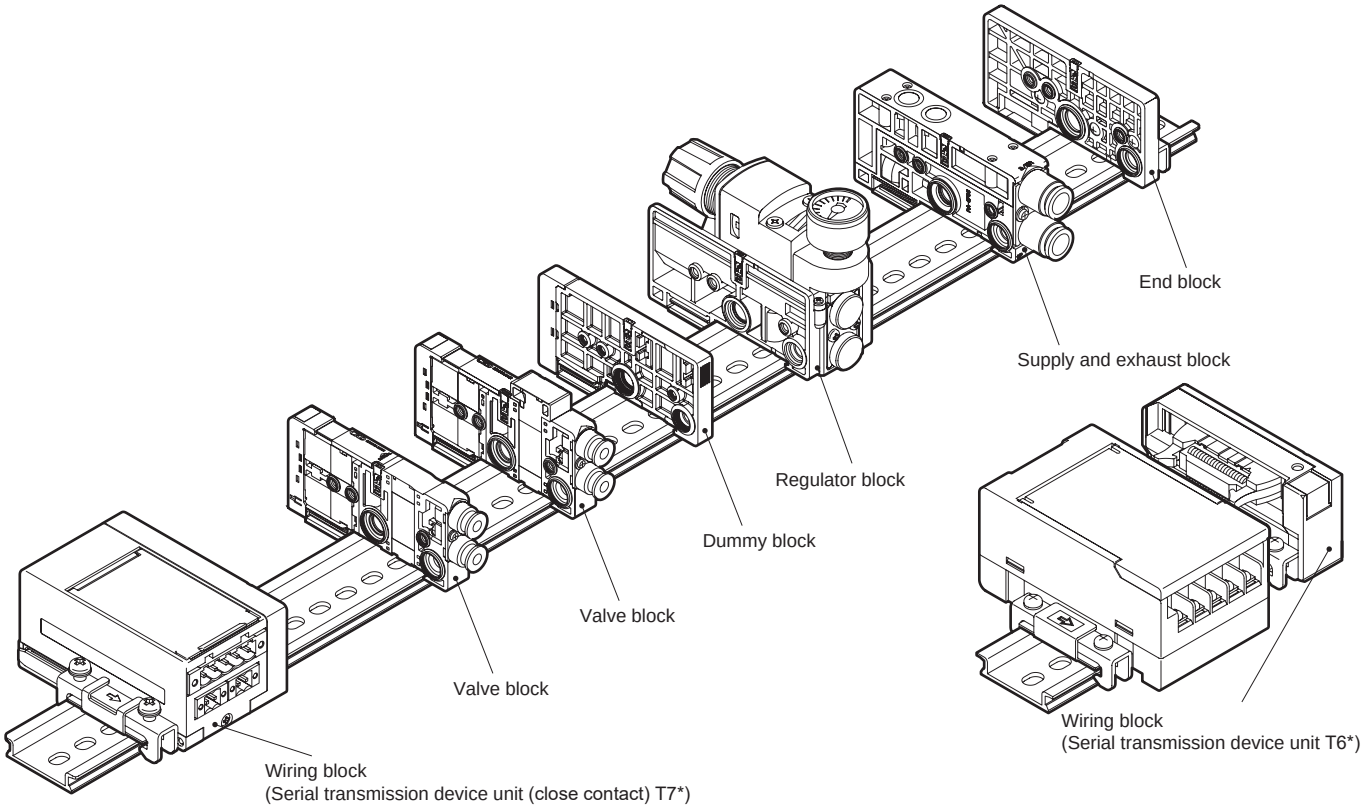
** -Voltage - **P70**

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".
- T7N1 and T7N2 are not CE marking.

Manifold components explanation and parts list



Example of main component model No. (Refer to pages 922 to 932 for details)

Part name	Model No. (example)	Part name	Model No. (example)
Wiring block	N4E0-T7G2	Regulator block	N4E0-RA-RL
Valve block	N4E020-C4-3	Supply and exhaust block	N4E0-Q-8
	N4E030-C4-3	End block	N4E0-ER
Dummy block	N4E0-MPD		

Related parts list

Part name	Model No. (example)	Part name	Model No. (example)
Cartridge push-in fitting and related parts	N4E0-JOINT-C18	Cartridge push-in fitting and related parts	N4E0-JOINT-CF
	N4E0-JOINT-C4		N4E0-JOINT-CPG
	N4E0-JOINT-C6		
	N4E0-JOINT-CL18		
	N4E0-JOINT-CL4		
	N4E0-JOINT-CL6		
	N4E0-JOINT-C3N		
	N4E0-JOINT-C4N		
	N4E0-JOINT-CL3N		
	N4E0-JOINT-CL4N		

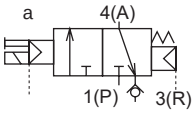
MEMO

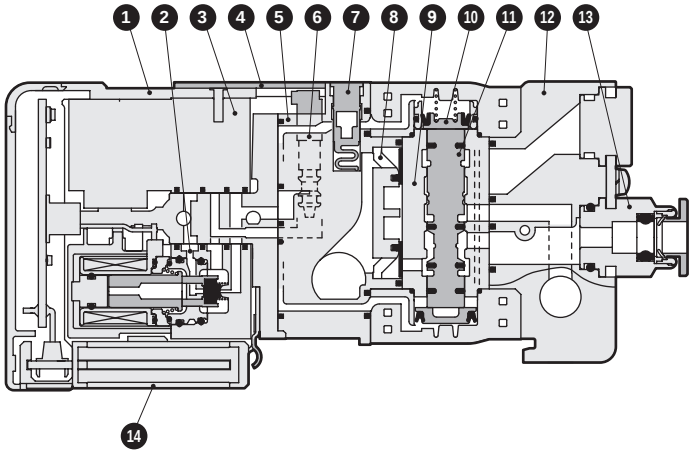
Internal structure and parts list

3-port valve

N3E010

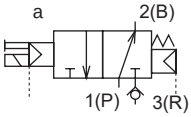
● 2-position single normally closed

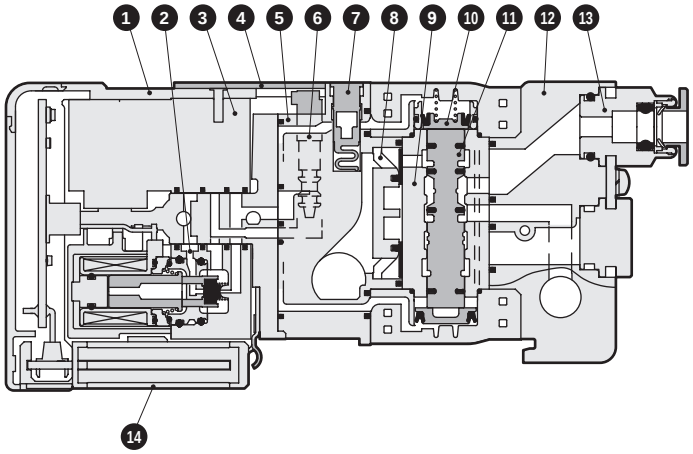




N3E0110

● 2-position single normally open





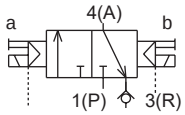
Main parts list

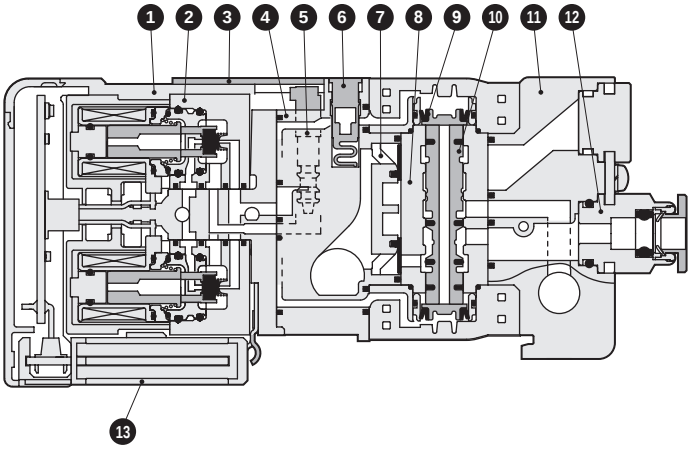
No.	Part name	Main material	No.	Part name	Main material
1	Wiring cover	PBT/PC	8	Check valve	PBT/TPU
2	Coil assembly	-	9	Body	Aluminum
3	Coil dummy	PPS	10	Piston chamber assembly	-
4	Manual cover	PBT	11	Spool assembly	Aluminum
5	Pilot block	PPS/PA	12	Port block	PA
6	Manual override	POM	13	Cartridge push-in fitting	-
7	Connection key	POM	14	Wiring connector assembly	LCP

Internal structure and parts list

N3E020

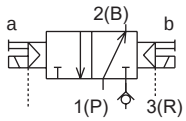
● 2-position double normally closed (self-hold)

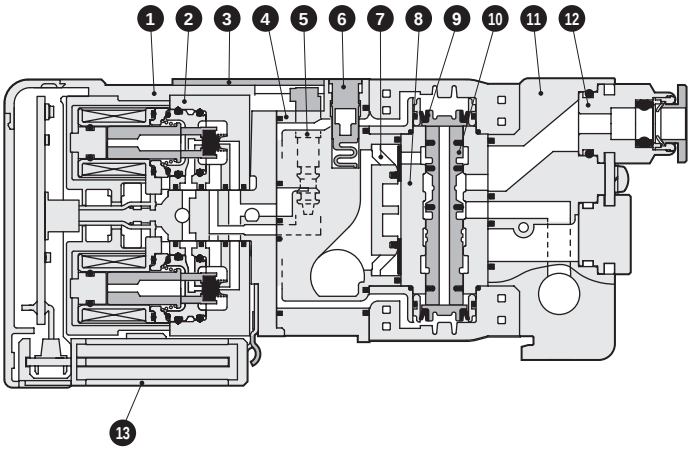




N3E0210

● 2-position double normally open (self-hold)





Main parts list

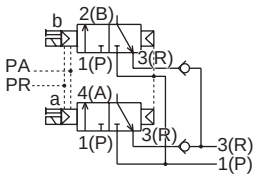
No.	Part name	Main material	No.	Part name	Main material
1	Wiring cover	PBT/PC	8	Body	Aluminum
2	Coil assembly	-	9	Piston chamber assembly	-
3	Manual cover	PBT	10	Spool assembly	Aluminum
4	Pilot block	PPS/PA	11	Port block	PA
5	Manual override	POM	12	Cartridge push-in fitting	-
6	Connection key	POM	13	Wiring connector assembly	LCP
7	Check valve	PBT/TPU			

Internal structure and parts list

Two 3-port valves integrated

N3E0660

● NC/NC self-reset (differential pressure return)

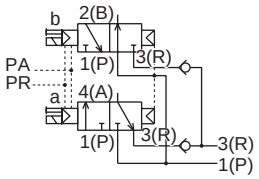


B side NC

A side NC

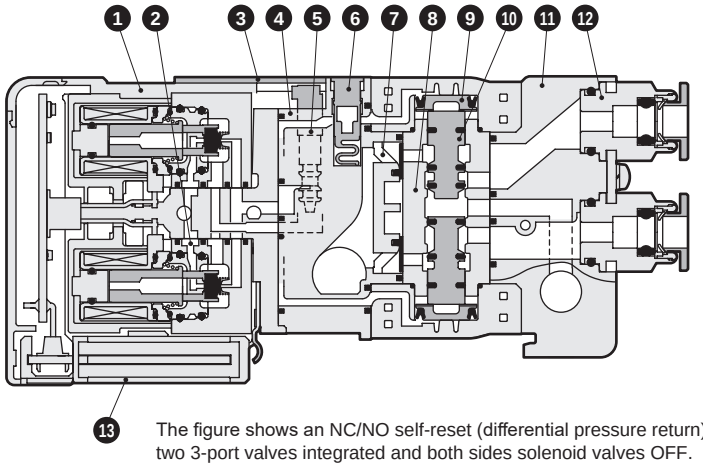
N3E0670

● NC/NO self-reset (differential pressure return)



B side NO

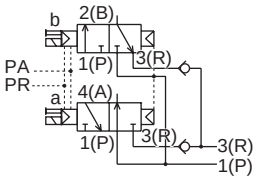
A side NC



The figure shows an NC/NO self-reset (differential pressure return) with two 3-port valves integrated and both sides solenoid valves OFF.

N3E0760

● NO/NC self-reset (differential pressure return)

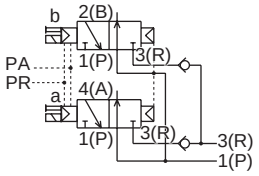


B side NC

A side NO

N3E0770

● NO/NO self-reset (differential pressure return)



B side NO

A side NO

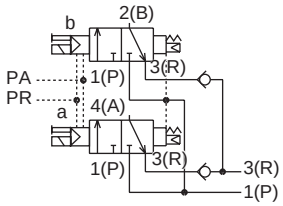
Main parts list

No.	Part name	Main material	No.	Part name	Main material
1	Wiring cover	PBT/PC	8	Body	Aluminum
2	Coil assembly	-	9	Piston chamber assembly	-
3	Manual cover	PBT	10	Spool assembly	Aluminum
4	Pilot block	PPS/PA	11	Port block	PA
5	Manual override	POM	12	Cartridge push-in fitting	-
6	Connection key	POM	13	Wiring connector assembly	LCP
7	Check valve	PBT/TPU			

Internal structure and parts list

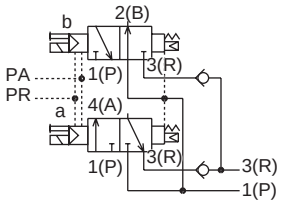
N3E066S0

● NC/NC self-reset (differential pressure spring return)



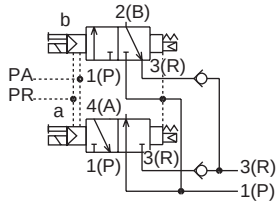
N3E067S0

● NC/NO self-reset (differential pressure spring return)



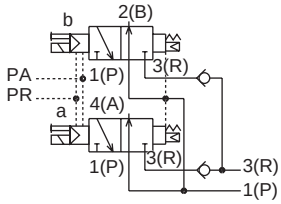
N3E076S0

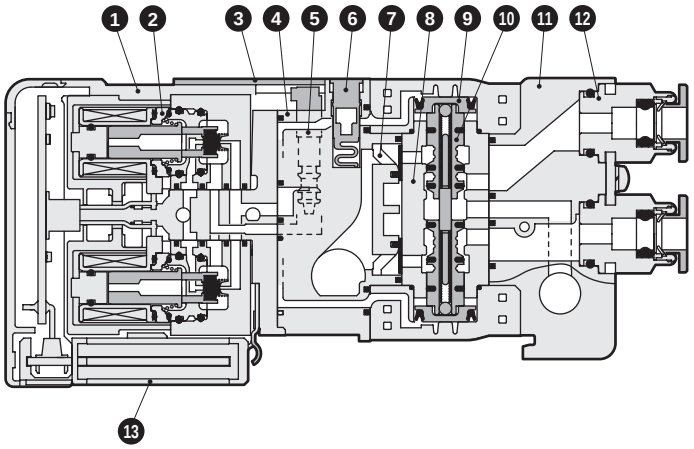
● NO/NC self-reset (differential pressure spring return)



N3E077S0

● NO/NO self-reset (differential pressure spring return)





The figure shows an NC/NO self-reset (differential pressure spring return) with two 3-port valves integrated and both sides solenoid valves OFF.

Main parts list

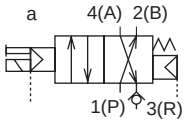
No.	Part name	Main material	No.	Part name	Main material
1	Wiring cover	PBT/PC	8	Body	Aluminum
2	Coil assembly	-	9	Piston chamber assembly	-
3	Manual cover	PBT	10	Spool assembly	Aluminum
4	Pilot block	PPS/PA	11	Port block	PA
5	Manual override	POM	12	Cartridge push-in fitting	-
6	Connection key	POM	13	Wiring connector assembly	LCP
7	Check valve	PBT/TPU			

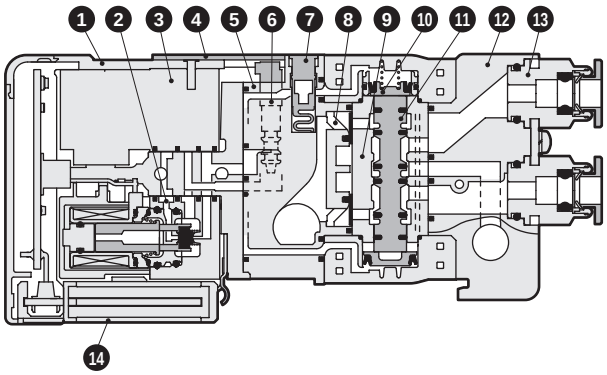
Internal structure and parts list

4-port valve

N4E010

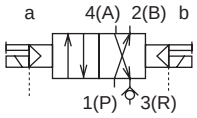
● 2-position single self-reset (differential pressure spring return)

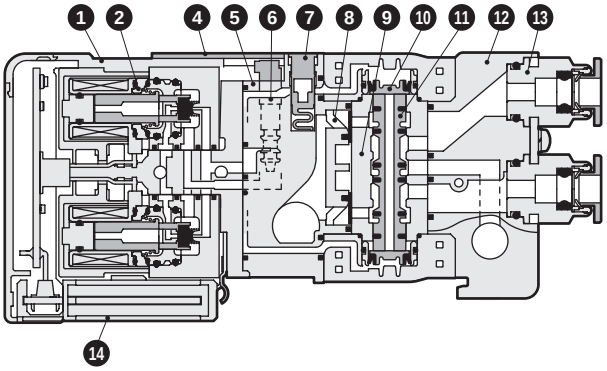




N4E020

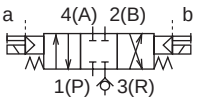
● 2-position double self-hold

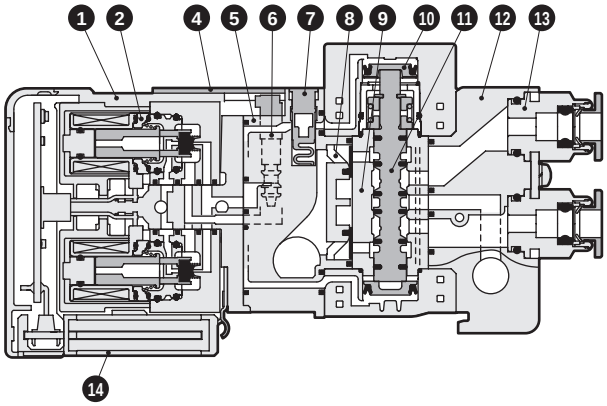




N4E030

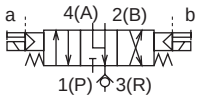
● 3-position all ports closed





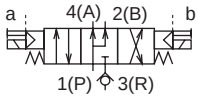
N4E040

● 3-position A/B/R connection



N4E050

● 3-position P/A/B connection



Main parts list

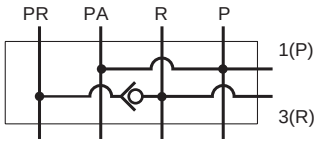
No.	Part name	Main material	No.	Part name	Main material
1	Wiring cover	PBT/PC	8	Check valve	PBT/TPU
2	Coil assembly	PPS/POM/PBT	9	Body	Aluminum
3	Coil dummy	PPS	10	Piston chamber assembly	PPS/POM
4	Manual cover	PBT	11	Spool assembly	Aluminum
5	Pilot block	PPS/PA	12	Port block	PA
6	Manual override	POM	13	Cartridge push-in fitting	-
7	Connection key	POM	14	Wiring connector assembly	LCP

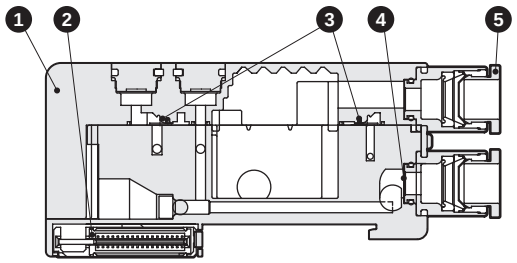
Internal structure and parts list

Supply and exhaust block

N4E0-Q

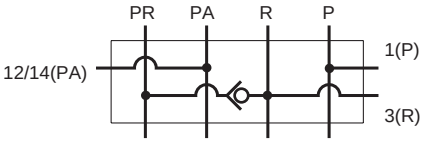
● For internal pilot

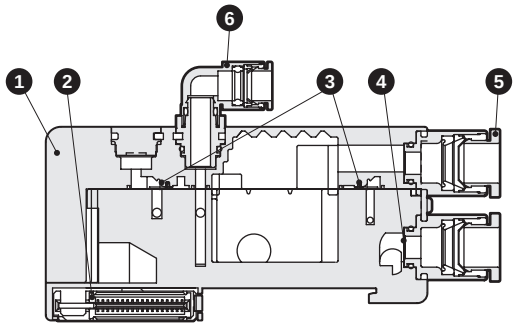




N4E0-QK

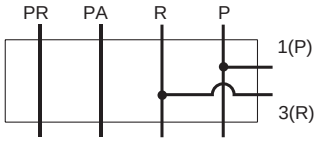
● For external pilot

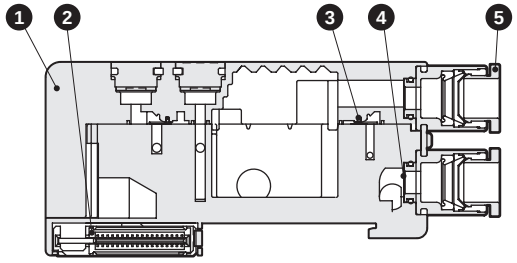




N4E0-QZ

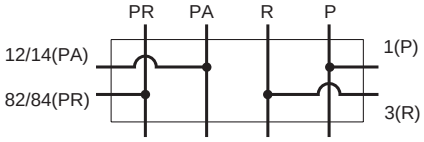
● For multi-pressure circuit

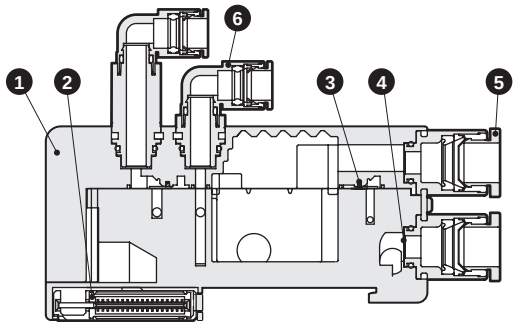




N4E0-QKZ

● PA/PR separated for external pilot





Main parts list

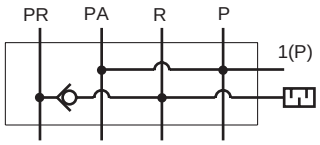
No.	Part name	Main material
1	Supply and exhaust block	PA
2	Wiring connector assembly	LCP
3	Check valve	TPU
4	Air supply filter	SUS
5	Cartridge push-in fitting (main piping section)	-
6	Cartridge push-in fitting (external pilot piping section)	-

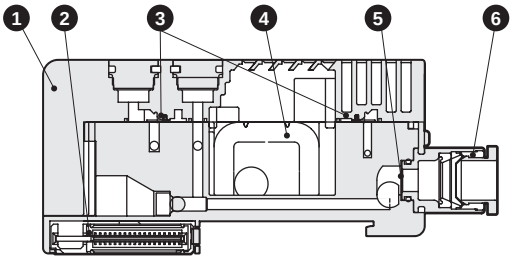
Internal structure and parts list

Supply and exhaust block

N4E0-QX

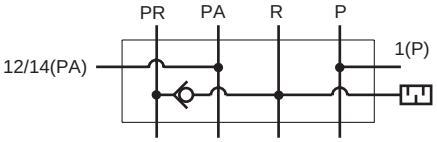
● Atmosphere release for internal pilot

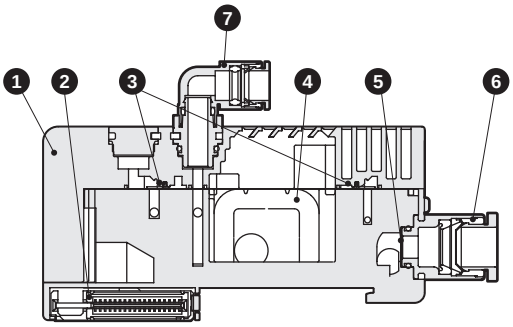




N4E0-QKX

● Atmosphere release for external pilot





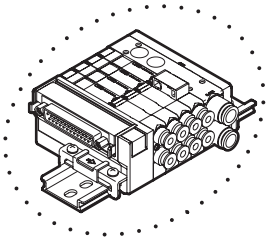
Main parts list

No.	Part name	Main material
1	Supply and exhaust block	PA
2	Wiring connector assembly	LCP
3	Check valve	TPU
4	Exhaust filter	-
5	Air supply filter	SUS
6	Cartridge push-in fitting (main piping section)	-
7	Cartridge push-in fitting (external pilot piping section)	-

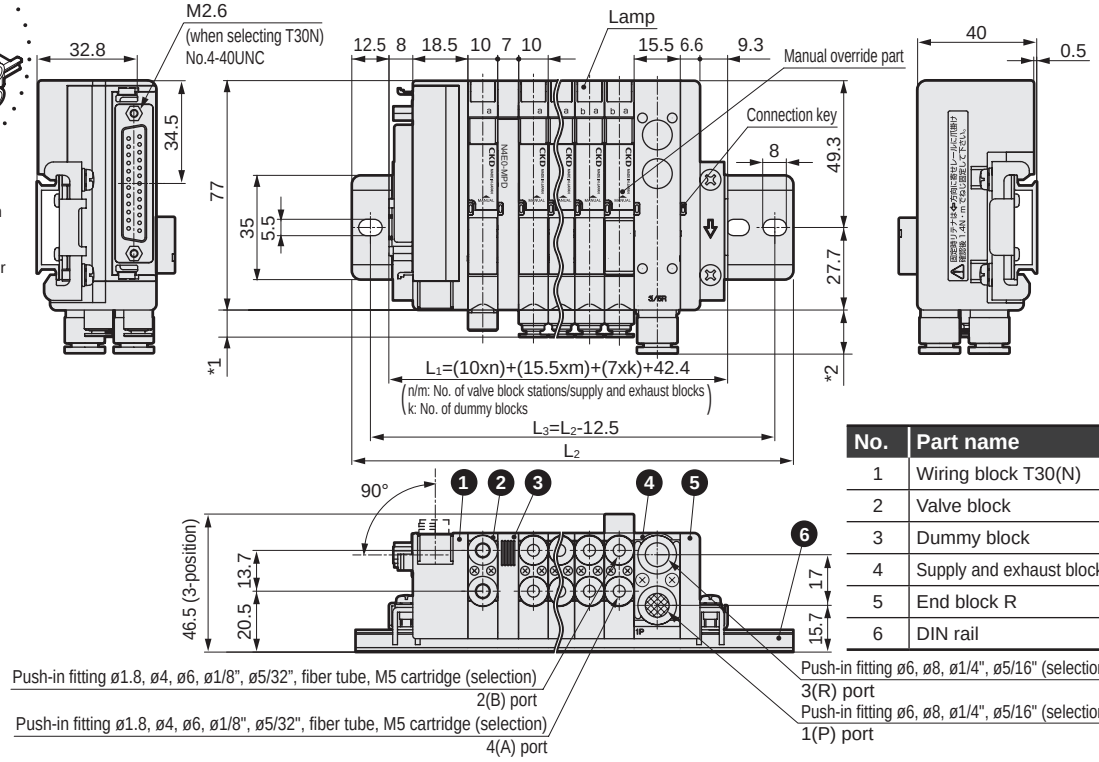
Dimensions

MN 3/4 E0*-*-T30(N)*-*-*

● D-sub-connector left side (T30(N))



* D-sub-connector projection can be switched between upward and downward directions.
* For how to switch the connector direction, refer to page 919.



*1: Valve block fitting dimensions		
Push-in fitting	ø1.8	5.5
	ø4	9.5
	ø6	10.7
	ø1/8"	10.0
	ø5/32"	9.6
Fiber tube		8.5
M5 female thread		6.9

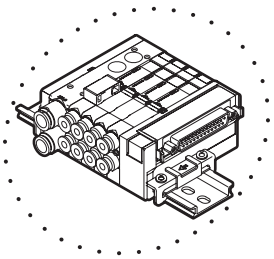
*2: Supply/exhaust block fit. dim.	
ø6	14
ø8	14.8
ø1/4"	15.1
ø5/16"	15.3

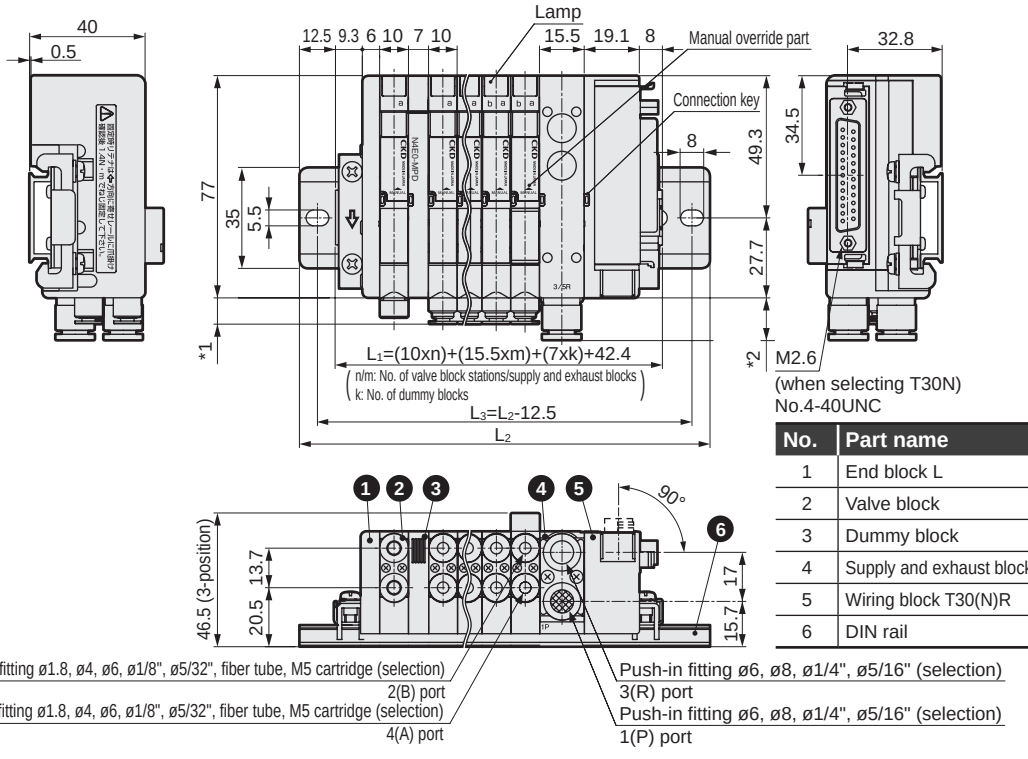
No.	Part name
1	Wiring block T30(N)
2	Valve block
3	Dummy block
4	Supply and exhaust block
5	End block R
6	DIN rail

* For dimensions of the push-in L fittings (upward) for valve block and for supply and exhaust block, and of the valve block with individual power supply function (AUX), refer to page 919.

MN 3/4 E0*-*-T30(N)R*-*-*

● D-sub-connector right side (T30(N)R)





*1: Valve block fitting dimensions		
Push-in fitting	ø1.8	5.5
	ø4	9.5
	ø6	10.7
	ø1/8"	10.0
	ø5/32"	9.6
Fiber tube		8.5
M5 female thread		6.9

*2: Supply/exhaust block fit. dim.	
ø6	14
ø8	14.8
ø1/4"	15.1
ø5/16"	15.3

No.	Part name
1	End block L
2	Valve block
3	Dummy block
4	Supply and exhaust block
5	Wiring block T30(N)R
6	DIN rail

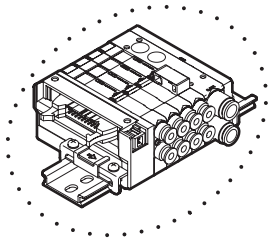
Manifold length L1 mm	76.2 or less	88.7 or less	101.2 or less	113.7 or less	126.2 or less	138.7 or less	151.2 or less	163.7 or less	176.2 or less	188.7 or less	201.2 or less	213.7 or less	226.2 or less	238.7 or less	251.2 or less	263.7 or less	276.2 or less	288.7 or less	301.2 or less	313.7 or less	326.2 or less	338.7 or less	351.2 or less
Mounting rail length L2 mm	100	112.5	125	137.5	150	162.5	175	187.5	200	212.5	225	237.5	250	262.5	275	287.5	300	312.5	325	337.5	350	362.5	375
Mounting rail pitch L3 mm	87.5	100	112.5	125	137.5	150	162.5	175	187.5	200	212.5	225	237.5	250	262.5	275	287.5	300	312.5	325	337.5	350	362.5

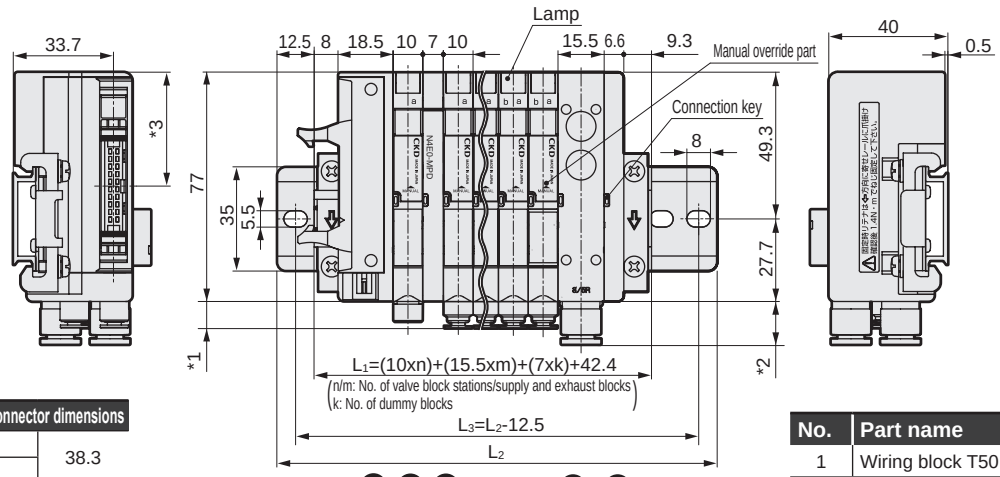
Dimensions

MN$^{3}_{4}$E0*-*-T50*-*-*

● Flat cable connector left side type (T50)

* T51, T52 and T53 are also available. Dimensions are the same as T50. Refer to *3: Connector dimensions for dimensions of the connector.

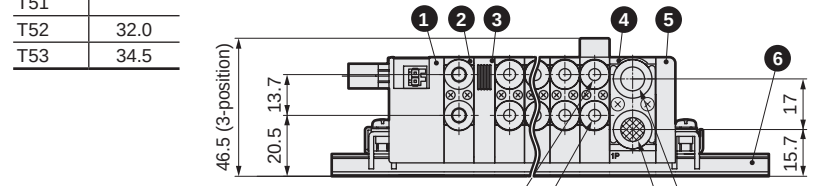




*1: Valve block fitting dimensions		
Push-in fitting	ø1.8	5.5
	ø4	9.5
	ø6	10.7
	ø1/8"	10.0
	ø5/32"	9.6
Fiber tube		8.5
M5 female thread		6.9

*2: Supply/exhaust block fit. dim.	
ø6	14
ø8	14.8
ø1/4"	15.1
ø5/16"	15.3

*3: Connector dimensions	
T50	38.3
T51	
T52	32.0
T53	34.5

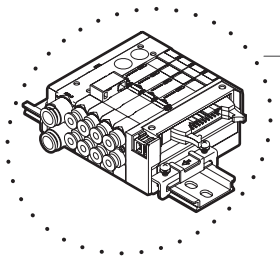


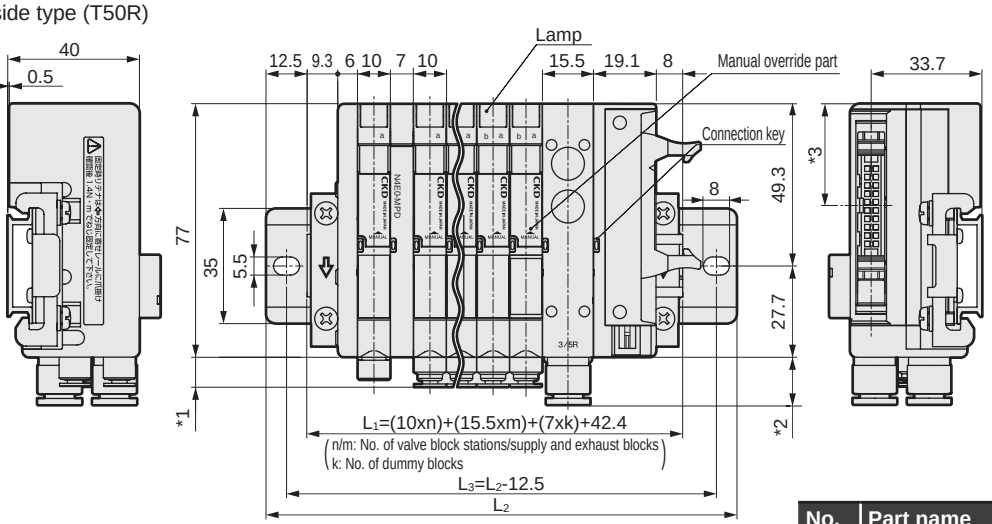
No.	Part name
1	Wiring block T50
2	Valve block
3	Dummy block
4	Supply and exhaust block
5	End block R
6	DIN rail

* For dimensions of the push-in L fittings (upward) for valve block, fiber tube fitting, and supply and exhaust block, refer to page 919.
* A power feed connector can be used with T50 to supply power to the PLC output unit. Refer to page 919 for connector dimensions, to page 936 for how to wire, and to the wiring precautions.

MN$^{3}_{4}$E0*-*-T50R*-*-*

● Flat cable connector right side type (T50R)

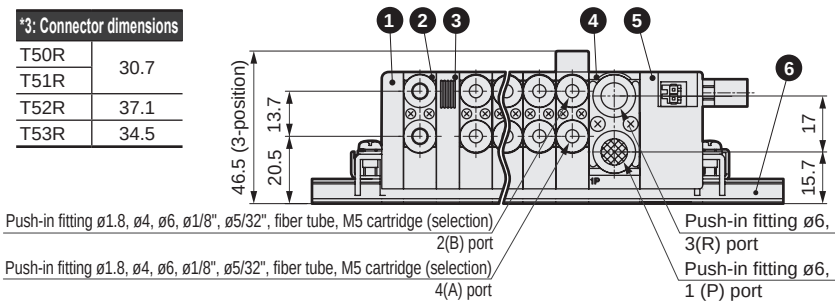




*1: Valve block fitting dimensions		
Push-in fitting	ø1.8	5.5
	ø4	9.5
	ø6	10.7
	ø1/8"	10.0
	ø5/32"	9.6
Fiber tube		8.5
M5 female thread		6.9

*2: Supply/exhaust block fit. dim.	
ø6	14
ø8	14.8
ø1/4"	15.1
ø5/16"	15.3

*3: Connector dimensions	
T50R	30.7
T51R	
T52R	37.1
T53R	34.5



No.	Part name
1	End block L
2	Valve block
3	Dummy block
4	Supply and exhaust block
5	Wiring block T50R
6	DIN rail

Manifold length L1 mm	76.2 or less	88.7 or less	101.2 or less	113.7 or less	126.2 or less	138.7 or less	151.2 or less	163.7 or less	176.2 or less	188.7 or less	201.2 or less	213.7 or less	226.2 or less	238.7 or less	251.2 or less	263.7 or less	276.2 or less	288.7 or less	301.2 or less	313.7 or less	326.2 or less	338.7 or less	351.2 or less
Mounting rail length L2 mm	100	112.5	125	137.5	150	162.5	175	187.5	200	212.5	225	237.5	250	262.5	275	287.5	300	312.5	325	337.5	350	362.5	375
Mounting rail pitch L3 mm	87.5	100	112.5	125	137.5	150	162.5	175	187.5	200	212.5	225	237.5	250	262.5	275	287.5	300	312.5	325	337.5	350	362.5

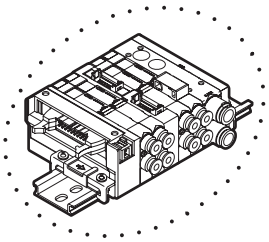
Dimensions

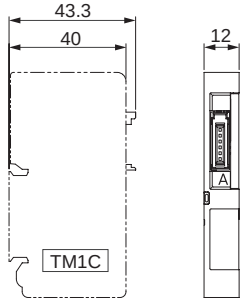
MN$^{3}_{4}$E0*-*-TM1$^{A}_{C}$*-*-*

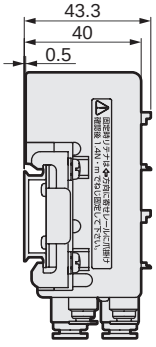
● RITS connector, intermediate wiring (TM1 $^{A}_{C}$)

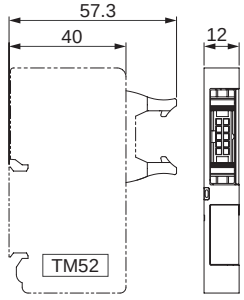
MN$^{3}_{4}$E0*-*-TM52*-*-*

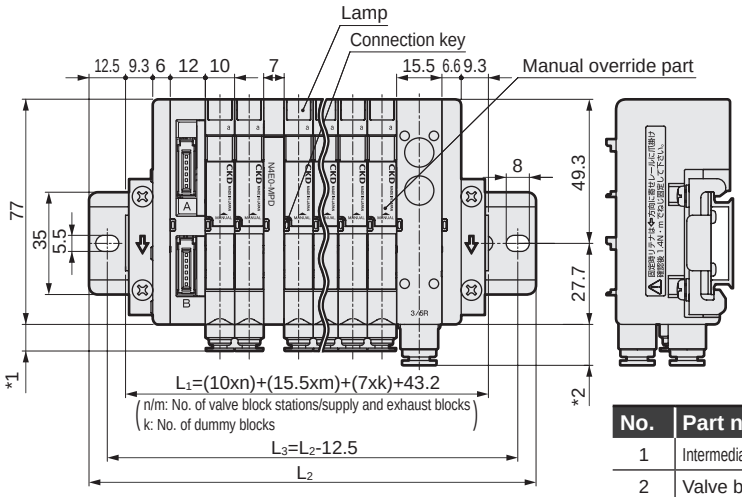
● 10-pin flat cable connector, intermediate wiring (TM52)

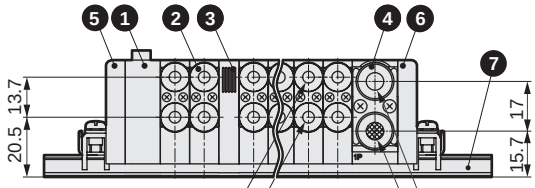












No.	Part name
1	Intermediate wiring block TM1A
2	Valve block
3	Dummy block
4	Supply and exhaust block
5	End block L
6	End block R
7	DIN rail

Push-in fitting ø1.8, ø4, ø6, ø1/8", ø5/32", fiber tube, M5 cartridge (selection)
2(B) port
Push-in fitting ø1.8, ø4, ø6, ø1/8", ø5/32", fiber tube, M5 cartridge (selection)
4(A) port

Push-in fitting ø6, ø8, ø1/4", ø5/16" (selection)
3(R) port
Push-in fitting ø6, ø8, ø1/4", ø5/16" (selection)
1(P) port

*1: Valve block fitting dimensions		
Push-in fitting	ø1.8	5.5
	ø4	9.5
	ø6	10.7
	ø1/8"	10.0
	ø5/32"	9.6
Fiber tube		8.5
M5 female thread		6.9

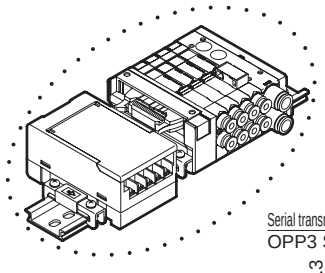
*2: Supply/exhaust block fit. dim.	
ø6	14
ø8	14.8
ø1/4"	15.1
ø5/16"	15.3

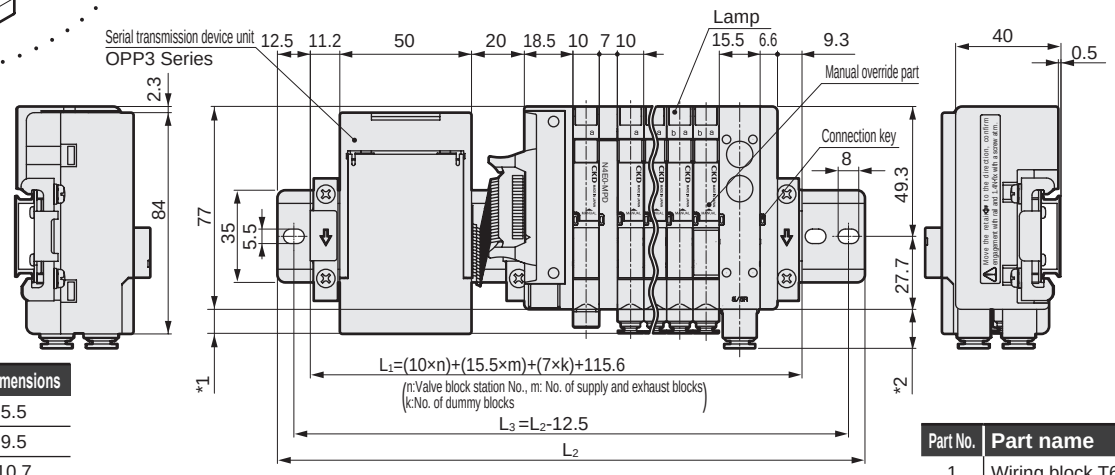
Manifold length L1 mm	76.2 or less	88.7 or less	101.2 or less	113.7 or less	126.2 or less	138.7 or less	151.2 or less	163.7 or less	176.2 or less	188.7 or less	201.2 or less	213.7 or less	226.2 or less	238.7 or less	251.2 or less	263.7 or less	276.2 or less	288.7 or less	301.2 or less	313.7 or less	326.2 or less	338.7 or less	351.2 or less
Mounting rail length L2 mm	100	112.5	125	137.5	150	162.5	175	187.5	200	212.5	225	237.5	250	262.5	275	287.5	300	312.5	325	337.5	350	362.5	375
Mounting rail pitch L3 mm	87.5	100	112.5	125	137.5	150	162.5	175	187.5	200	212.5	225	237.5	250	262.5	275	287.5	300	312.5	325	337.5	350	362.5

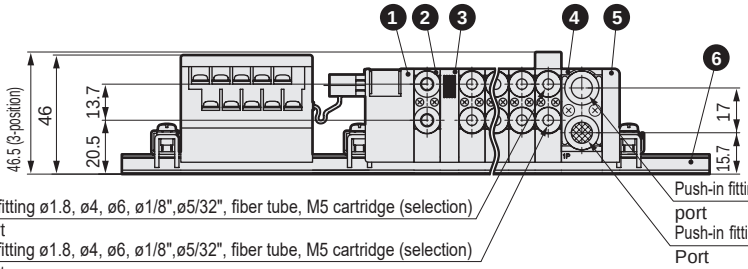
Dimensions

MN$^{3}_{4}$E0*-*-T6G1-*-*

● Serial transmission (T6G1)







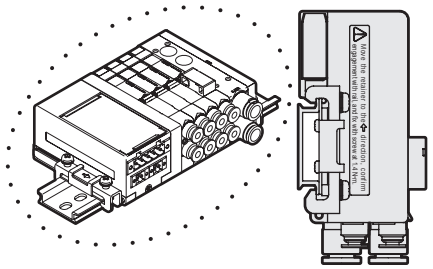
* 1 Valve block fitting dimensions		
Push-in fitting	ø1.8	5.5
	ø4	9.5
	ø6	10.7
	ø1/8"	10.0
	ø5/32"	9.6
Fiber tube		8.5
M5 female thread		6.9

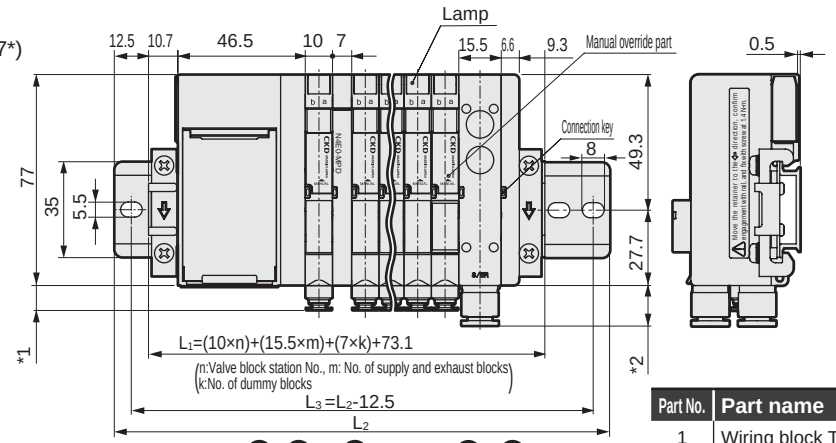
*2 Supply and exhaust block fitting dimensions	
ø6	14
ø8	14.8
ø1/4"	15.1
ø5/16"	15.3

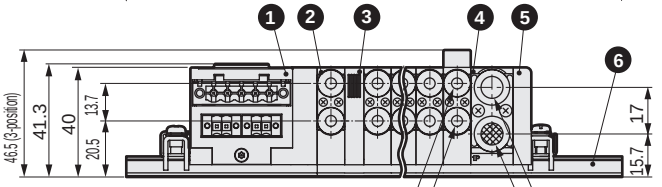
Part No.	Part name
1	Wiring block T6G1
2	Valve block
3	Dummy block
4	Supply and exhaust block
5	End block R
6	DIN rail

MN$^{3}_{4}$E0*-*-T7**-*-*

● Serial transmission (close contact type) (T7*)







* 1 Valve block fitting dimensions		
Push-in fitting	ø1.8	5.5
	ø4	9.5
	ø6	10.7
	ø1/8"	10.0
	ø5/32"	9.6
Fiber tube		8.5
M5 female thread		6.9

*2 Supply and exhaust block fitting dimensions	
ø6	14
ø8	14.8
ø1/4"	15.1
ø5/16"	15.3

Part No.	Part name
1	Wiring block T7*
2	Valve block
3	Dummy block
4	Supply and exhaust block
5	End block R
6	DIN rail

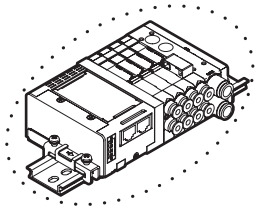
* For Dimensions of the push-in L fittings (upward) for valve block, fiber tube fitting, and supply and exhaust block, refer to page 919.

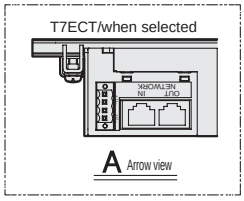
Manifold length L1 mm	76.2 or less	88.7 or less	101.2 or less	113.7 or less	126.2 or less	138.7 or less	151.2 or less	163.7 or less	176.2 or less	188.7 or less	201.2 or less	213.7 or less	226.2 or less	238.7 or less	251.2 or less	263.7 or less	276.2 or less	288.7 or less	301.2 or less	313.7 or less	326.2 or less	338.7 or less	351.2 or less
Mounting rail length L2 mm	100	112.5	125	137.5	150	162.5	175	187.5	200	212.5	225	237.5	250	262.5	275	287.5	300	312.5	325	337.5	350	362.5	375
Mounting rail pitch L3 mm	87.5	100	112.5	125	137.5	150	162.5	175	187.5	200	212.5	225	237.5	250	262.5	275	287.5	300	312.5	325	337.5	350	362.5

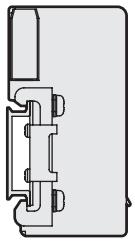
Dimensions

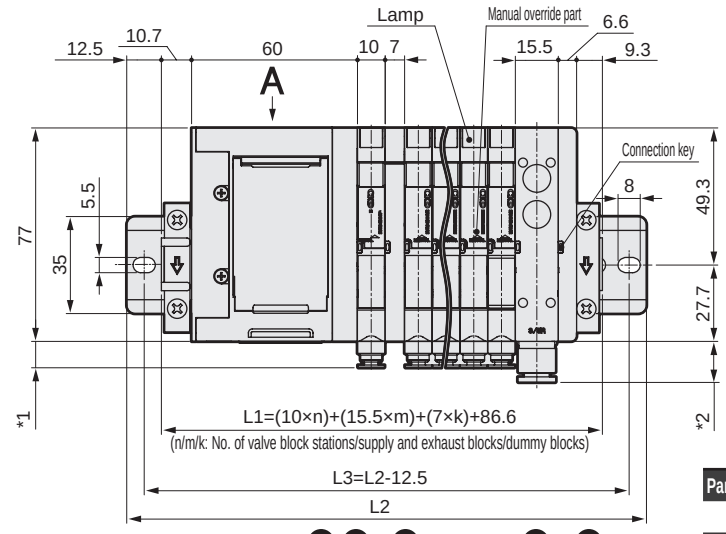
MN$^{3}_{4}$E0*-*-T7**-*-*

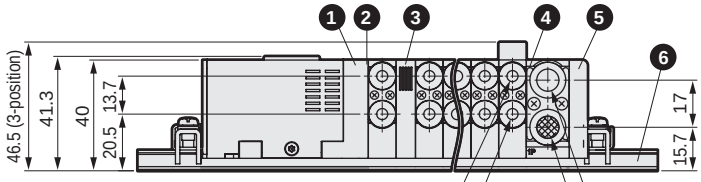
● Serial transmission (T7EC**)











Push-in fitting ø1.8, ø4, ø6, ø1/8", ø5/32", fiber tube, M5 cartridge (selection)
2 (B) port

Push-in fitting ø1.8, ø4, ø6, ø1/8", ø5/32", fiber tube, M5 cartridge (selection)
4 (A) port

Push-in fitting ø6, ø8, ø1/4", ø5/16" (selection)
3(R) port

Push-in fitting ø6, ø8, ø1/4", ø5/16" (selection)
1 (P) port

Part No.	Part name
1	Wiring block T7*
2	Valve block
3	Dummy block
4	Supply and exhaust block
5	End block R
6	DIN rail

***1 Valve block fitting dimensions**

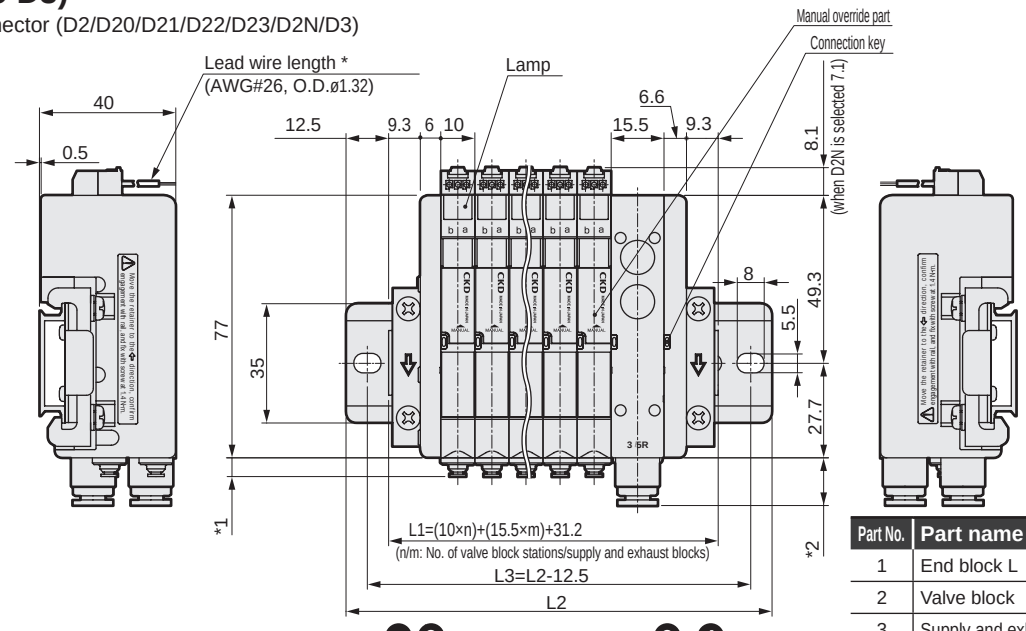
Push-in fitting	ø1.8	5.5
	ø4	9.5
	ø6	10.7
	ø1/8"	10.0
	ø5/32"	9.6
Fiber tube		8.5
M5 female thread		6.9

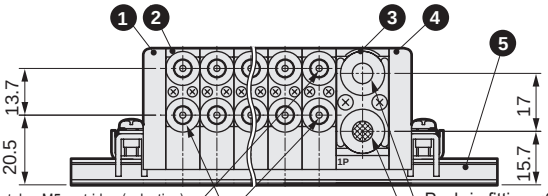
***2 Supply and exhaust block fitting dimensions**

ø6	14
ø8	14.8
ø1/4"	15.1
ø5/16"	15.3

MN$^{3}_{4}$E0*-*-(D2 to D3)-*-*

● Individual wiring connector (D2/D20/D21/D22/D23/D2N/D3)





Push-in fitting ø1.8, ø4, ø6, ø1/8", ø5/32", fiber tube, M5 cartridge (selection)
2 (B) port

Push-in fitting ø1.8, ø4, ø6, ø1/8", ø5/32", fiber tube, M5 cartridge (selection)
4 (A) port

Push-in fitting ø6, ø8, ø1/4", ø5/16" (selection)
3(R) port

Push-in fitting ø6, ø8, ø1/4", ø5/16" (selection)
1 (P) port

Push-in fitting ø1.8

Part No.	Part name
1	End block L
2	Valve block
3	Supply and exhaust block
4	End block R
5	DIN rail

*** Lead wire length**

D2	300 mm
D20	500 mm
D21	1000 mm
D22	2000 mm
D23	3000 mm

***1 Valve block fitting dimensions**

Push-in fitting	ø1.8	5.5
	ø4	9.5
	ø6	10.7
	ø1/8"	10.0
	ø5/32"	9.6
Fiber tube		8.5
M5 female thread		6.9

***2 Supply and exhaust block fitting dimensions**

ø6	14
ø8	14.8
ø1/4"	15.1
ø5/16"	15.3

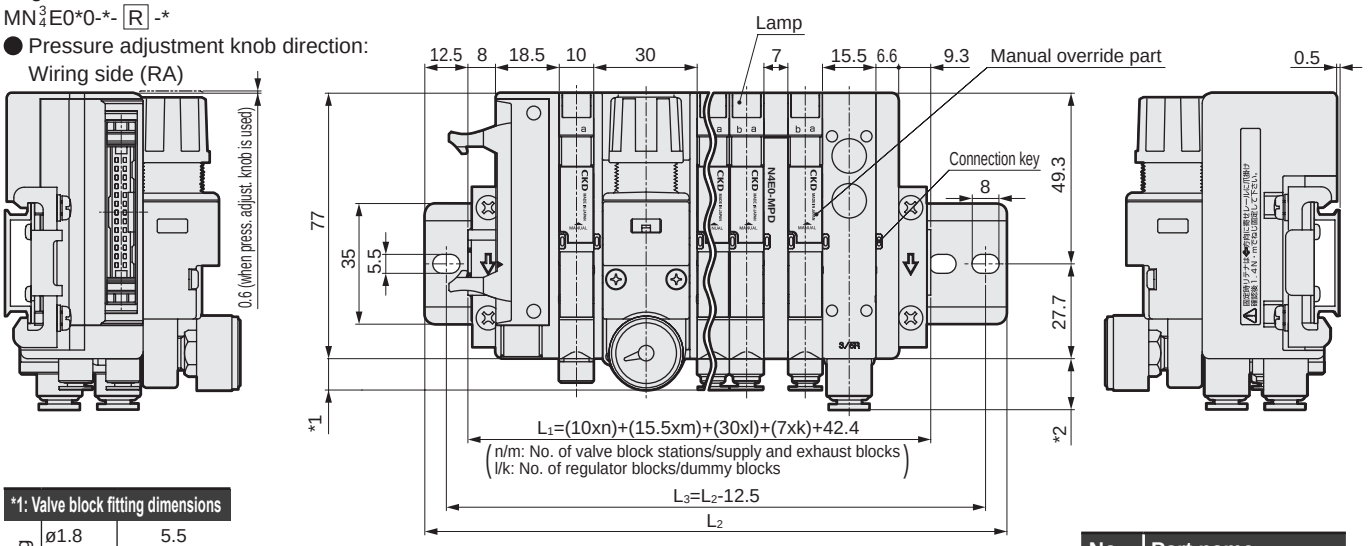
Manifold length L1 mm	63.7 or less	76.2 or less	88.7 or less	101.2 or less	113.7 or less	126.2 or less	138.7 or less	151.2 or less	163.7 or less	176.2 or less	188.7 or less	201.2 or less	213.7 or less	226.2 or less	238.7 or less	251.2 or less	263.7 or less	276.2 or less	288.7 or less	301.2 or less	313.7 or less	326.2 or less	338.7 or less	351.2 or less
Mounting rail length L2 mm	87.5	100	112.5	125	137.5	150	162.5	175	187.5	200	212.5	225	237.5	250	262.5	275	287.5	300	312.5	325	337.5	350	362.5	375
Mounting rail pitch L3 mm	75	87.5	100	112.5	125	137.5	150	162.5	175	187.5	200	212.5	225	237.5	250	262.5	275	287.5	300	312.5	325	337.5	350	362.5

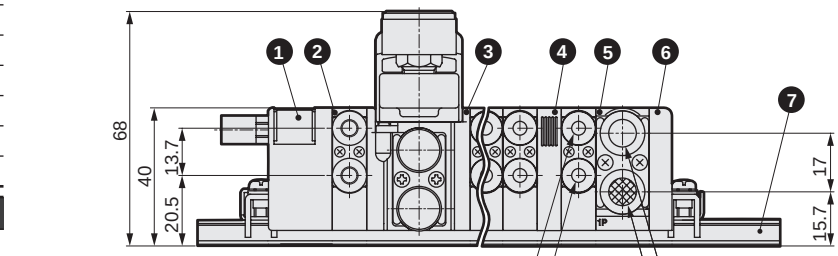
Dimensions

● Piping blocks (common for all types)

Regulator block
MN$\frac{3}{4}$E0*0-*- R -*

● Pressure adjustment knob direction: Wiring side (RA)



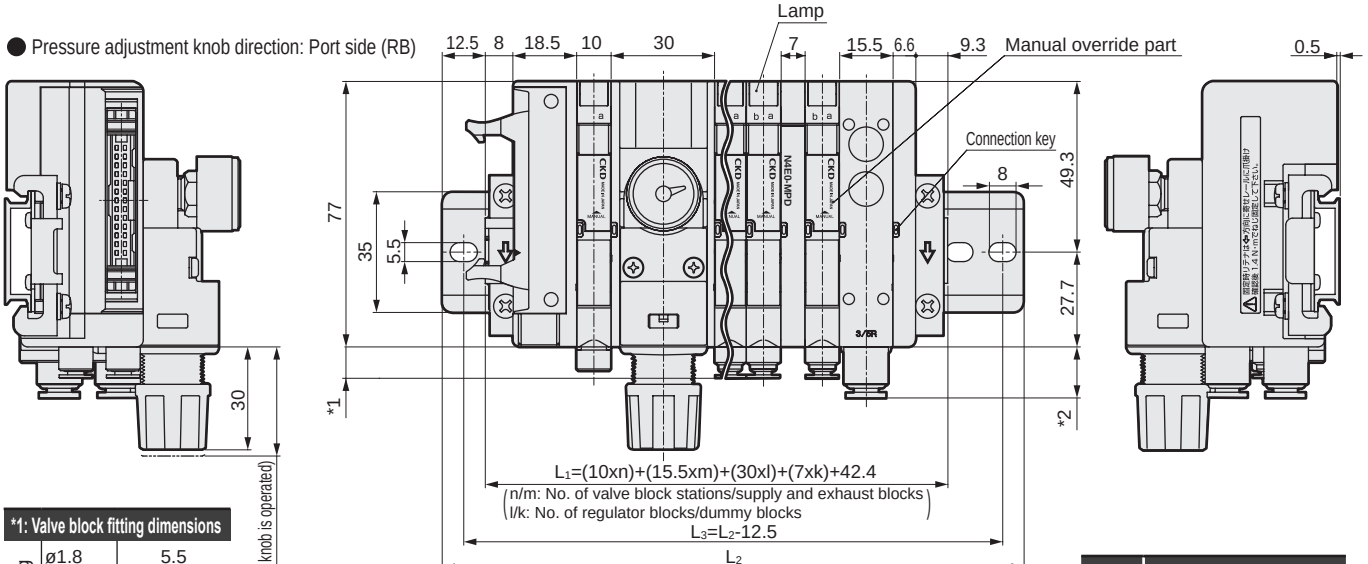


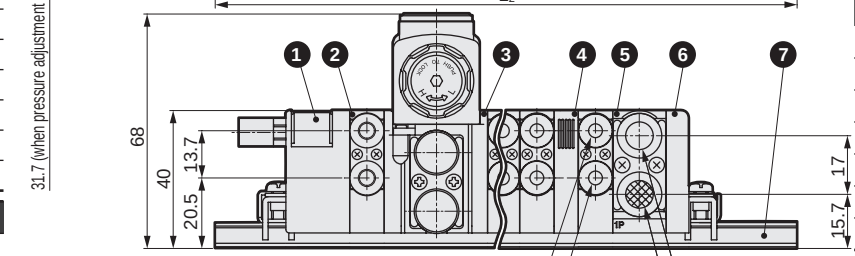
*1: Valve block fitting dimensions		
Push-in fitting	ø1.8	5.5
	ø4	9.5
	ø6	10.7
	ø1/8"	10.0
	ø5/32"	9.6
Fiber tube		8.5
M5 female thread		6.9

*2: Supply/exhaust block fit. dim.	
ø6	14
ø8	14.8
ø1/4"	15.1
ø5/16"	15.3

No.	Part name
1	Wiring block T5*
2	Valve block
3	Regulator block
4	Dummy block
5	Supply and exhaust block
6	End block R
7	DIN rail

● Pressure adjustment knob direction: Port side (RB)





*1: Valve block fitting dimensions		
Push-in fitting	ø1.8	5.5
	ø4	9.5
	ø6	10.7
	ø1/8"	10.0
	ø5/32"	9.6
Fiber tube		8.5
M5 female thread		6.9

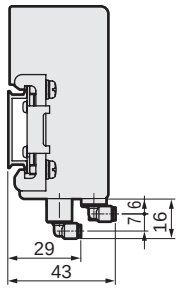
*2: Supply/exhaust block fit. dim.	
ø6	14
ø8	14.8
ø1/4"	15.1
ø5/16"	15.3

No.	Part name
1	Wiring block T5*
2	Valve block
3	Regulator block
4	Dummy block
5	Supply and exhaust block
6	End block R
7	DIN rail

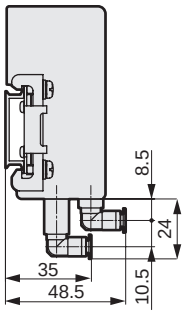
Dimensions

● Piping blocks (common for all types)

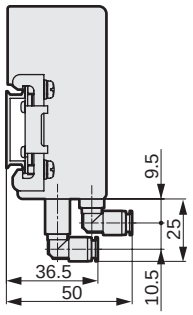
For fiber tube
Push-in fitting (upward)
● ø1.8 (CL18)



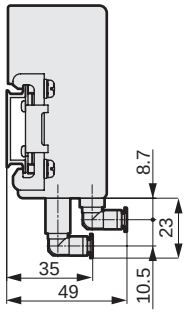
Valve block
Push-in L fitting (upward)
● ø4 (CL4)



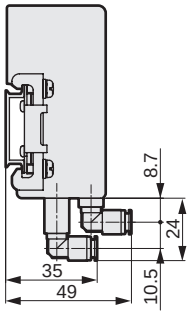
● ø6 (CL6)



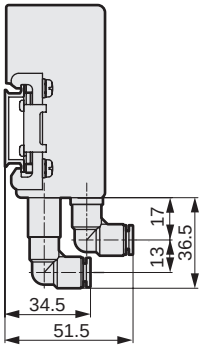
Valve block
Push-in L fitting (upward)
● ø1/8" (CL3N)



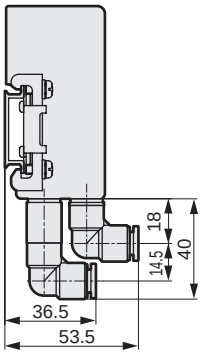
● ø5/32" (CL4N)



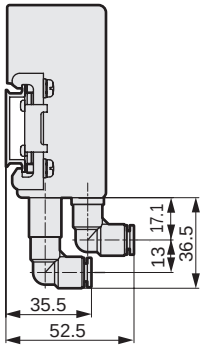
Supply and exhaust block
Push-in L fitting (upward)
● ø6 (CL6)



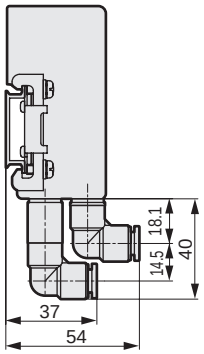
● ø8 (CL8)



Supply and exhaust block
Push-in L fitting (upward)
● ø1/4" (CL6N)

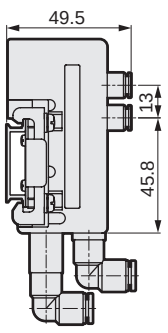


● ø5/16" (CL8N)

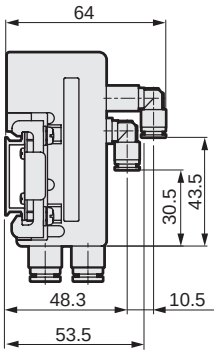


Supply and exhaust block for external pilot

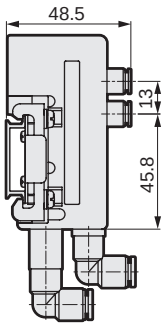
● Upward piping



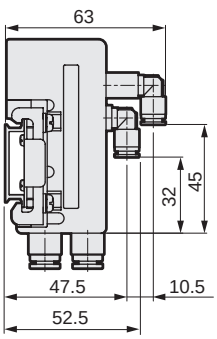
● Lateral piping



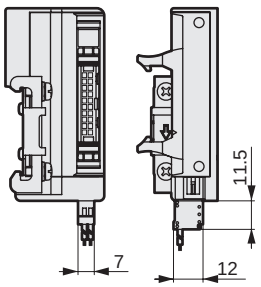
● Upward piping
(Inch fitting specifications)



● Lateral piping
(Inch fitting specifications)



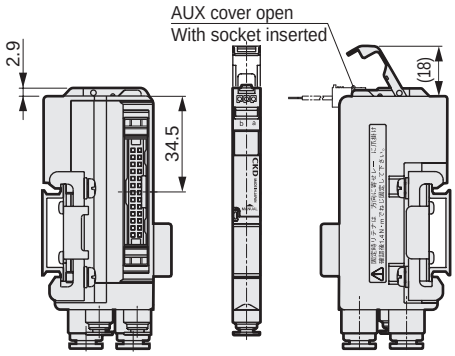
● Dimensions with T50 power supply connector



Feed connector
(Included with product)

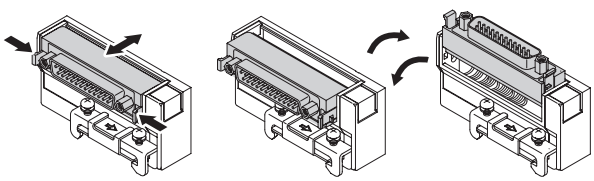
Applicable wire
AWG28-20

● Built-in individual power supply function (AUX)



● D-sub-connector (T30/T30R): How to switch the connector direction

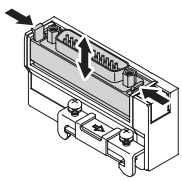
Usage in a horizontal state



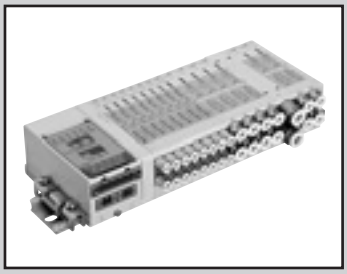
Hold the lever and pull the connector out horizontally. Push in the connector horizontally for storage. (Must be fixed.)

Rotate the connector. Fix the connector in the horizontal or vertical state during use.

Usage in a vertical state



Hold the lever and pull the connector out vertically. Push in the connector horizontally for storage. (Must be fixed.)



MN4E0/MN4E00 Mix manifold

MN3EX0/MN4EX0 Series

● Cylinder bore size: ø4 to ø32

RoHS

Specifications

Common with all series. Refer to pages 872 and 896.

How to order

Block manifolds

MN 4 EX0 - C4 - R - M T53 E - 5 - 3

DIN rail Mounting method

A Valve type

B Port size

C Adjustment function

D Manual override

E Wiring method

F Terminal/connector pin array

G Option

H Station No.

I Voltage

Code	Description
A Valve type	
3	3-port valve or two 3-port valves integrated
4	4-port valve or 3, 4-port valve mix
B Port size	
C18	ø1.8 push-in fitting lateral (compatible tube UP-9402)
CL18	ø1.8 push-in fitting upward (compatible tube UP-9402)
C4	ø4 push-in fitting lateral
CL4	ø4 push-in fitting upward
CX	Mix push-in fitting (*9)
C3N	ø1/8" push-in fitting lateral
CL3N	ø1/8" push-in fitting upward
C4N	ø5/32" push-in fitting lateral
CL4N	ø5/32" push-in fitting upward
CXN	Mix push-in fitting (*9)
C Adjustment function	
Blank	Without regulator block
R	Regulator block equipped manifold (*1)(*2)
D Manual override	
Blank	Manual override with manual cover (for locking/non-locking)
M	Manual override with manual cover (for non-locking)
E Wiring method	
Refer to the following page for the wiring method.	
F Terminal/connector pin array	
Blank	Standard wiring
W	Double wiring (*3)
G Option	
Blank	No
E	Low exoergic/energy circuit type (*4))(*5)
A	Ozone-proof product
F	Port A/B filter integrated (*6)
H Station No.	**(*8)**
1	1 stations
to	to
32	32 stations (*7)
I Voltage	
3	24 VDC
4	12 VDC

Precautions for model No. selection

*1: The two 3-port valves integrated type resets the main valve with the main pressure, so if there is a difference between the pilot pressure and main pressure, the response time may be delayed.

*2: Check that the main pressure supplied to the valve block with two 3-port valves integrated is not higher than the pilot pressure, and that the main pressure does not drop below 0.2 MPa.

***3 :** Refer to the connector pin layout (example) on pages 934 to 948 for the double wiring specifications.
When ordering individual valve blocks, the double wiring designation is limited to the 4-position single solenoid for the 2-port valve and to the 3-position single solenoid for the 2-port valve.

*4: Energizing is limited to the plus common.

*5: Individual wiring is not available for low exoergic/energy circuit type.

*6: A filter (for preventing entry of foreign matter) is incorporated in the supply and exhaust block's port P.

***7:** Differs depending on the specifications. Refer to pages 873 and 897.

*8: A dummy block is counted in the station No.

*9: Inch fittings cannot be mixed with metric fittings.

[Wiring method list]

Code		Description
Ⓔ Wiring method		
TM1A		Intermediate wiring block RITS connector 6P x 2
TM1C		Intermediate wiring block RITS connector 6P
TM52		Intermediate wiring block 10-pin flat cable connector, 8 points compatible
T30(N)		25-pin D sub-connector Left-sided spec.
T30(N)R		25-pin D sub-connector Right-sided spec.
T50		20-pin flat cable connector Left-sided spec. (with power supply terminal)
T50R		20-pin flat cable connector Right-sided spec. (with power supply terminal)
T51		20-pin flat cable connector Left-sided spec.
T51R		20-pin flat cable connector Right-sided spec.
T52		10-pin flat cable connector Left-sided spec.
T52R		10-pin flat cable connector Right-sided spec.
T53		26-pin flat cable connector Left-sided spec.
T53R		26-pin flat cable connector Right-sided spec.
TX		Wiring block mix (*11) (*12) (*13)
T6G1		CC-Link 16 points
T7D1		Close contact DeviceNet 16 points
T7D2		Close contact DeviceNet 32 points
T7G1		Close contact CC-Link 16 points
T7G2		Close contact CC-Link 32 points
T7N1		Close contact S-LINK V 16 points
T7N2		Close contact S-LINK V 32 points
T7EC1		Close contact EtherCAT 16 points (Port side leadout)
T7EC2		Close contact EtherCAT 32 points (Port side leadout)
T7ECT1		Close contact EtherCAT 16 points (Wiring side leadout)
T7ECT2		Close contact EtherCAT 32 points (Wiring side leadout)
D2	Individual wiring*	D-connector Lead wire length 300 mm
D20		D-connector Lead wire length 500 mm
D21		D-connector Lead wire length 1000 mm
D22		D-connector Lead wire length 2000 mm
D23		D-connector Lead wire length 3000 mm
D2N		D-connector without lead wire without socket
D3		D-connector without lead wire with socket/terminal

*11: Request 2 pcs in the manifold specifications sheet. Contact CKD for 3 pcs. or more.
*12: Individual wiring is not available for the TX wiring method.
*13: For the TX wiring connection method, the maximum station No. is 24.
* Individual wiring: Individual wiring specification is available with valve blocks designated for it.

Mix block dimensions

MN$^{3}_{4}$EXO