

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

ltem		Description		
Rated voltage V		12, 24 DC		
Voltage fluctuati	on range	±10% (When using serial transmission +10%, -5%)		
	24 VDC	0.017 (0.009) (*3)		
Holding current A	12 VDC	0.033 (0.018) (*3)		
Power consumption W	24 VDC	0.4 (0.22) (*3)		
	12 VDC	0.4 (0.22) (3)		
Thermal class		В		
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 excergic/energy saving circuit. As well, when using the valve block with low excergic/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

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

• T7

MN3E00/MN4E00								
T7D1	T7D2	T7G1	T7G2	T7N1	T7N2	T7EC⊡1	T7EC⊡2	
16 stations	32 stations	16 stations	32 stations	16 stations	32 stations	16 stations	32 stations	
8 stations	16 stations	8 stations	16 stations	8 stations	16 stations	8 stations	16 stations	
16 points	32 points	16 points	32 points	16 points	32 points	16 points	32 points	
	16 stations 8 stations	16 stations32 stations8 stations16 stations	16 stations32 stations16 stations8 stations16 stations8 stations	T7D1T7D2T7G1T7G216 stations32 stations16 stations32 stations8 stations16 stations8 stations16 stations	T7D1T7D2T7G1T7G2T7N116 stations32 stations16 stations32 stations16 stations8 stations16 stations8 stations16 stations8 stations	T7D1T7D2T7G1T7G2T7N1T7N216 stations32 stations16 stations32 stations16 stations32 stations8 stations16 stations8 stations16 stations8 stations16 stations	T7D1T7D2T7G1T7G2T7N1T7N2T7EC 116 stations32 stations16 stations32 stations16 stations32 stations16 stations8 stations16 stations8 stations16 stations8 stations8 stations8 stations	

Performance/characteristics by model

TotAirSys	Performance/characteristics by model							
(Total Aîr) TotAirSvs	Item	Port	3-port valve	4-port valve	Two 3-port valves integrated			
TotAirSys (Gamma)	Response time 2 position	Single	20 or less	20 or less	20 or less			
En eline e	(*1) ms	Double	20 or less	20 or less	-			
Ending	*1. The recepte time is the value at 0.5 MPa supply prossure, with no lubrication							

the value at 0.5 MPa supply pressure, with no lubrication.

CKD

Silencer

Reduced wiring block manifold

b

0.24

0.24

0.24

T7EC 🗌 1

T7EC 🗌 2

4GA/B

M4GA/B

MN4GA/B

4GA/B

(master

M4GD/E

MN4GD/E

4GA4/B4

MN3E MN4E

W4GA/B2

W4GB4

MN3S0

MN4S0

4SA/B0

4KA/B

4KA/B (master

4F 4F

(master)

PV5G

GMF

PV5

GMF

PV5S-0

3Q

MV3QR

3MA/B0

3PA/B

P/M/B

NP/NAP

4G*0EJ

4F*0EX 4F*0E HMV HSV 2QV 3QV

NVP

T7EC[°]

145

4GB With sensor 4GD/E

Flow characteristics P→A/B A/B→R C[dm³/(s·bar)] C[dm³/(s·bar)] b 3-port valve 0.30 0.20 0.32 2-position 0.32 4-port valve 2-position 0.30 0.20 Two 3-port valves integrated 2-position 0.30 0.20 0.32 *1: Effective cross-sectional area S and sonic conductance C are converted as $S \approx 5.0 \times C$. *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/). T7G1 T7D1 T7N1 T6G1 *1 Item **T7D2 T7G2 T7N2** 24 VDC ±10% 24 VDC ±10% Unit side Valve 24 VDC + 10% -5% 24 VDC + 10% -5% side voltage Unit side 11 to 25 VDC _ T7D1: 60 mA or less T7G1: 65 mA or less T7N1: 40 mA or less 100 mA or less 120 mA or less T7D2: 85 mA or less T7G2: 90 mA or less Unit side T7N2: 50 mA or less (When all points output ON) 15 mA or less consumption Valve side 15 mA or less (when all points OFF) (when all points OFF) Unit side 50 mA or less T7G1: 16 points T7N1: 16 points T7EC 1: 16 points T7D1: 16 points No. of I/O points 16 points T7D2: 32 points T7G2: 32 points T7N2: 32 points T7EC 2: 32 points T7D1: 2 bytes T7G1: 1 station T7EC 1: 1 address T7N1: output 16 points Occupied number 1 station T7D2: 4 bytes T7G2: 1 station T7N2: output 32 points T7EC 2: 1 address *1: CC-Link is Ver. 1.10. Weight Flat cable connector Intermediate wiring block **D-sub-connector** Serial transmission Wiring block T30(N) T5^{*} TM1* TM52 T6G1 T7* (g) 67 59 32 34 205 128 Q/QZ QK QKZ QX QKX Supply and exhaust Fitting Lateral 64 69 79 56 61 (g) Fitting Upward 90 94 98 62 66 2-position single 2-position double Two 3-port valves integrated Valve block Fitting Lateral 31.5 35.0 35.0 (g) Fitting Upward 37.5 41.0 41.0 MPS/MPD Dummy block 20 (g) Regulator block -(*1) 124 (g) ER/EL End block (g) 40 DIN rail (g) 0.19 g/mm *1: The values may differ slightly based on the regulator block specifications.

Power

supply

Current

block

TotAirSys (Total Air) TotAirSys (Gamma)

SKH Silencer

Ending

4GA/B	How to order manifold D sub	/flat cable o	connector *Refer to pag	e 878 for serial	transmission.
M4GA/B	Discrete valve block N 3 E00 1 0 - C3 -	(N	1) D2 (W) EF (3)		
MN4GA/B	Block manifolds				
4GA/B (master)	MN 4 E00 1 0- C3		N T53 D2 E - 5 - 3	Ту	ре
4GB With sensor	DIN rail © Port size			Block manifold	Valve Discrete block
4GD/E	Mounting method	Adjustment	iring method Station No. function G Terminal/connector pin array		
M4GD/E		* "Manifold	Individual wiring specifications sheet" (Page 957).		
MN4GD/E		Code	Description		
4GA4/B4		A Valve t			
MN3E	A Valve type		3-port valve or two 3-port valves integrated 4-port valve or 3, 4-port valve mix	•	
MN4E	Colonaid position	B Solend	pid position (*10)		
W4GA/B2	B Solenoid position	1 11	Single NC self-reset (Differential pressure spring return) Single NO self-reset (Differential pressure spring return)	•	
W4GB4		2 21	Single NC self-reset (Differential pressure spring return) Single NO self-reset (Differential pressure spring return) Double NC self-hold → Double NO self-hold		
MN3S0 MN4S0					•
4SA/B0		66S 67	B side valve: NC self-reset (Differential pressure spring return)	•	
	· For model No. of the cable with D	67S	B side valve: NO self-reset (Differential pressure spring return)	•	•
4KA/B	sub-connector, refer to page 935.	76 76S	A side valve: NO self-reset (Differential pressure return) B side valve: NC self-reset (Differential pressure spring return)		
4KA/B (master)		77	A side valve: NO self-reset (Differential pressure return)		
4F		77S	 B side valve: NO self-reset (Differential pressure spring return) 2-position single self-reset (Differential pressure spring return) 		
		2	Image: self-hold se		•
4F (master)	A Precautions for model No. selection	C Port si			
PV5G	*1:The two 3-port valves integrated type cannot		1.8 push-in fitting lateral (compatible tube UP-9402-**)		
GMF PV5	be used with the external pilot. Consult with CKD for other working conditions.		91.8 push-in fitting upward (compatible tube UP-9402-**) 93 Push-in fitting Side	•	
GMF	*2:The two 3-port valves integrated type resets the	CL3 (v3 push-in fitting upward	•	•
PV5S-0	main valve with the main pressure, so if there is a difference between the pilot pressure and main	C4 (CL4 (94 push-in fitting lateral 94 push-in fitting upward	•	
3Q	pressure, the response time may be delayed.	M3	M3 female thread (with rotation-stop)	•	•
	*3:Check that the main pressure supplied to the valve block with two 3-port valves integrated		۸ix push-in fitting (*12) ۱/۶" push-in fitting lateral	•	•
MV3QR	is not higher than the pilot pressure, and that	CL3N 🖟	ø1/8" push-in fitting upward	•	•
3MA/B0	the main pressure does not drop below 0.2 MPa.		95/32" push-in fitting lateral 95/32" push-in fitting upward	•	•
3PA/B	*4: Refer to the connector pin layout		/lix push-in fitting (*12)	•	
	(example) on pages 934 to 941 for		ment function		
P/M/B	the double wiring specifications. When ordering individual valve blocks, the		Without regulator block (*2)(*3) Regulator block equipped manifold (*2)(*3)	•	
NP/NAP NVP	double wiring designation is limited to the		l override		
4G*0EJ	4-position single solenoid for the 2-port valve and to the 3-position single solenoid	Blank	Non-locking/locking common (with manual cover)	•	
	for the 2-port valve.	Wiring	Manual override for non-locking (with manual cover)		
4F*0EX	*5: Double wiring is not available for discrete individual wiring valve block.		following page for the wiring method.		
4F*0E	*6: Energizing is limited to the plus common.		al/connector pin array		
HMV HSV	*7: Individual wiring is not available for low exoergic/energy circuit type.	Blank	Standard wiring Double wiring (*4))(*5)	•	
	*8: In the supply and exhaust block's port P, a filter (for preventing entry of foreign matter) is incorporated.				
2QV 3QV	*9:Differs depending on the	Option Blank	No		•
SKH	specifications. Refer to page 872.	E l	ow exoergic/energy circuit type (*6)(*7)	•	
Silencer	*10:For specifications of the self-reset, refer to the precautions on page 959.	Station	Port A/B filter integrated (*8)		(*11)
TotAirSys (Total Air)	To include a dummy block, select mix manifold. *11:A dummy block is counted in the station No.	1 ′	l stations		
	*12:Inch fittings cannot be mixed with metric		to 24 stations (*9)	-	
TotAirSys (Gamma)	fittings and M3 female threads.	J Voltag		·	
Ending		3 2	24 VDC	•	•
0	4 CKD	4	I2 VDC		
87	4				

CKD

874

Reduced wiring block manifold

4GA/B M4GA/B MN4GA/B 4GA/B (master) 4GB With sensor 4GD/E M4GD/E MN4GD/E

4GA4/B4 MN3E MN4E W4GA/B2

W4GB4 MN3S0 MN4S0 4SA/B0

4KA/B 4KA/B (master) 4F 4F (master) PV5G GMF PV5 GMF

PV5S-0

MV3QR 3MA/B0

3PA/B

P/M/B

NP/NAP NVP

4G*0EJ

4F*0EX 4F*0E

HMV HSV

2QV 3QV

SKH Silencer TotAirSys (Total Air) TotAirSys (Gamma)

3Q

			Туре			
			Block	Valve		
			manifold	Discrete bloo		
	neth	od list)				
Code		Description	V	~		
F Wirin						
T30(N)	· ·	n D-sub-connector Left-sided spec.	•			
T30(N)R	<u> </u>	n D-sub-connector Right-sided spec.	•			
T50	<u> </u>	flat cable connector Left-sided spec. (with power supply terminal) (*13)	•			
T50R	· ·	flat cable connector Right-sided spec. (with power supply terminal) (*13)	•			
T51	20-pi	n flat cable connector Left-sided spec.	•			
T51R	20-рі	n flat cable connector Right-sided spec.	•			
T52	10-pi	n flat cable connector Left-sided spec.	•			
T52R	10-pi	n flat cable connector Right-sided spec.	•			
T53	26-pi	n flat cable connector Left-sided spec.	•			
T53R	26-pi	n flat cable connector Right-sided spec.	•			
TM1A		mediate wiring block RITS connector 6P×2 (*14)	•			
TM1C	Inter	mediate wiring block RITS connector 6P (*14)	٠			
TM52	Inter	mediate wiring block 10-pin flat cable connector	٠			
ТХ	Wirin	g block mix(*15) (*16) (*17)	•			
Blank	Valve	e block for reduced wiring		•		
D2		D-connector 300 mm	٠	•		
D20	* 0	D-connector 500 mm	٠	•		
D21	ndividual wiring	D-connector 1000 mm	٠	•		
D22	al <	DType connector 2000mm	•			
D23	ividu	D-connector 3000 mm	•			
D2N		D-connector without socket	•	•		
D3]	D-connector with socket/terminal	٠			

*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.

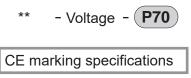
Ozone specifications

Ozone-proof specifications are available as standard.

Clean-room specifications

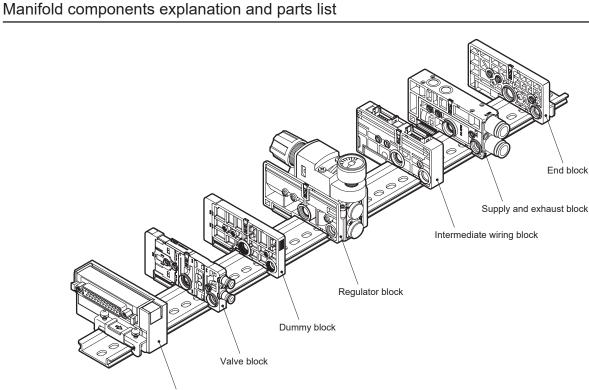
(Catalog No. CB-033SA)

Anti-dust generation structure for use in cleanrooms



** - Voltage - (ST

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



Wiring block (Figure shows D sub-connector)

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

	1 0 ,	
Model No. (example)	Part name	Model No. (example)
N4E0-T30	Intermediate wiring block	N4E0-TM1A
N4E0020-C3-3	Supply and exhaust block	N4E0-Q-8
N4E0-MPD	End block	N4E0-ER
N4E0-RA-RL		
	N4E0-T30 N4E0020-C3-3 N4E0-MPD	N4E0-T30 Intermediate wiring block N4E0020-C3-3 Supply and exhaust block N4E0-MPD End block

Related parts list

QR	Part name	Model No. (example)	Part name	Model No. (example)
3(1)		N4E00-JOINT-C18	Cartridge push-in fitting	N4E00-JOINT-CPG
B0		N4E00-JOINT-C3	and related parts	N4E00-JOINT-CPG
		N4E00-JOINT-C4		
/B		N4E00-JOINT-CL18		
В	Cartridge push-in fitting	N4E00-JOINT-CL3		
AP	and related parts	N4E00-JOINT-CL4		
AP		N4E00-JOINT-C3N		
- ,		N4E00-JOINT-C4N		
J		N4E00-JOINT-CL3N		
EX		N4E00-JOINT-CL4N]	

Ending

4F*0E HMV HSV 2QV 3QV

SKH

Silencer TotAirSys (Total Air)

TotAirSys (Gamma)

4GA/B	How to order manifold Serial	transmissi	ion *	Refer to page 874 for details on D sul	o-connector/flat c	cable connector.
M4GA/B	Discrete valve block N 3 E00 1 0 - C3 -	(I	M) (D	02 W EF 3		
MN4GA/B	Block manifolds					
4GA/B (master)	MN 4 E00 1 0- C3 -		M T6G1 C	E - 5 - 3	Ту	ре
4GB With sensor	DIN rail OPort size		ual override	Option Voltage	Block	Valve
4GD/E		Adjustment function	Wiring method (serial transmission)	Station No. G Terminal/connector pin array	manifold	Discrete block
M4GD/E			Individual	ı wiringType		
MN4GD/E		*Be sure to f	ill in the "Manifold	specifications sheet" (page 957).		
4GA4/B4		Code		Description		
MN3E	A Valve type	A Valve t		o 3-port valves integrated		
MN4E			4-port valve or 3,			
W4GA/B2	B Solenoid position		oid position (*			
W4GB4	C .	1	Single NC se Single NO se Double NC se E Double NO se	If-reset		
MN3S0 MN4S0		2 21	Double NC se			
4SA/B0		66 66S	() A side valve: N B side valve: N			
		67 67S	A side valve: N B side valve: N A side valve: N B side valve: N B side valve: N B side valve: N B side valve: N A side valve: N	IC self-reset (Differential pressure return)	•	•
4KA/B 4KA/B		76	A side valve: N	O self-reset (Differential pressure return)	•	
(master)		76S 77	0 // 0100 / 01/0. 14	O self-reset (Differential pressure return)		
4F	A Precautions for model No. selection	77S	동왕 2-position sing	le self-reset (Differential pressure spring return)		
4F (master)	*1:The two 3-port valves integrated type cannot be used with the external pilot. Consult with		4 [™] 2-position do Mix manifold	uble self-hold	•	•
PV5G	CKD for other working conditions.	C Port s	size			
GMF PV5	*2:The two 3-port valves integrated type resets the main valve with the main pressure, so if			ateral (compatible tube UP-9402-**) upward (compatible tube UP-9402-**)		
GMF	there is a difference between the pilot pressure and main pressure, the response		ø3 push-in fitting la ø3 push-in fitting u	iteral		
PV5S-0	time may be delayed.	C4	ø4 push-in fitting la	iteral		
3Q	*3:Check that the main pressure supplied to the valve block with two 3-port valves		ø4 push-in fitting u M3 female thread (with rotation-stop)		•
MV3QR	integrated is not higher than the pilot pressure, and that the main pressure does	CX C3N	Mix push-in fitting ø1/8" push-in fitting	(*12) g lateral	•	•
3MA/B0	not drop below 0.2 MPa.		ø1/8" push-in fitting ø5/32" push-in fittir			
3PA/B	*4:Check the connector pin array (example) given on pages 944 to	CL4N	ø5/32" push-in fittin Mix push-in fitting	ng upward		•
	948 for the double wiring specifications.		tment function			
P/M/B NP/NAP	When ordering individual valve blocks, the	Blank	Without regulator Regulator block ed	block	•	
NVP	double wiring designation is limited to the 4-position single solenoid for the 2-port		al override	μαιρρού παιπισία (2 <i>)</i> (3 <i>)</i>		
4G*0EJ	valve and to the 3-position single solenoid for the 2-port valve.	Blank	Non-locking/locki	ng common (with manual cover)	•	
4F*0EX	*5: Double wiring is not available for discrete		g method	for non-locking (with manual cover)		
4F*0E	individual wiring valve block. *6: Energizing is limited to the plus common.			or the wiring method.		
HMV	*7: Individual wiring is not available for low exoergic/energy circuit type.	-	nal/connector	pin array		
HSV 2QV	*8: A filter (for preventing entry of foreign matter) is incorporated in the supply and		Standard wiring Double wiring (*4) (*5)		
3QV	exhaust block's port P.	H Optio				
SKH	*9:Differs depending on the specifications. Refer to page 872.		No Low exoergic/ene	ergy circuit type (*6)(*7)	•	
Silencer	*10:For specifications of the self-reset, refer to the precautions on page 959.	F	Port A/B filter inte			
TotAirSys (Total Air)	To include a dummy block, select mix manifold.	Statio	n No. 1 stations			(*11)
TotAirSys	*11: A dummy block is counted in the station No. *12: Inch fittings cannot be mixed with metric	to	to 32 stations (*9)		-	
(Gammá)	fittings and M3 female threads.	J Voltag				
Ending			24 VDC			
87	⁷⁸ CKD					

Reduced wiring block manifold

			Ту	ре
			Block	Valve
			manifold	Discrete block
(Wiring	met	hod list)		
F Wirin	a me		1	
T6G1		.ink 16 points	•	
T7D1	Close	e contact type DeviceNet 16 points	•	
T7D2	Close	e contact type DeviceNet 32 points	•	
T7G1	Close	e contact type CC-Link 16 points	•	
T7G2	Close	e contact type CC-Link 32 points	•	
T7N1	Close	e contact type S-LINK V 16 points	•	
T7N2	Close	e contact type S-LINK V 32 points	•	
T7EC1	Close	e contact EtherCAT 16 points (port side leadout)	•	
T7EC2	Close	e contact EtherCAT 32 points (port side leadout)	•	
T7ECT1	Close	e contact EtherCAT 16 points (wiring side leadout)	•	
T7ECT2	Close	e contact EtherCAT 32 points (wiring side leadout)		
Blank	Valve	e block for reduced wiring		•
D2		D-connector 300 mm	•	•
D20	þ	D-connector 500 mm	•	•
D21	Individual wiring	D-connector 1000 mm	•	•
D22	dual	DType connector 2000mm	•	•
D23	divic	D-connector 3000 mm	•	•
D2N	<u> </u>	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

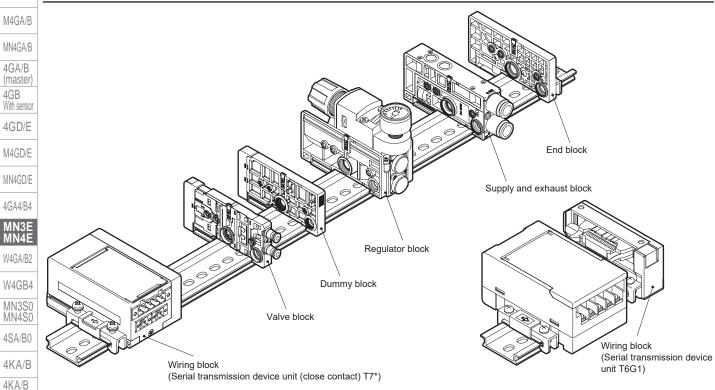
• Standard voltage of 24 VDC or less is CE marking-compatible even if the model No. is not indicated with "ST".

T7N1 and T7N2 are not CE marking.

ł	
	4GA/B
	M4GA/B
	MN4GA/B
	4GA/B (master)
	4GB With sensor
	4GD/E
	M4GD/E
	MN4GD/E
	4GA4/B4
	MN3E MN4E
	W4GA/B2
	W4GB4
	MN3S0 MN4S0
	4SA/B0
	4KA/B
	4KA/B (master)
	4F
	4F (master)
	PV5G GMF
	PV5 GMF
	PV5S-0
	3Q
	MV3QR
	3MA/B0
	3PA/B
	P/M/B
	NP/NAP NVP
	4G*0EJ
	4F*0EX
	4F*0E
	HMV HSV 2QV
	2QV 3QV
	SKH
	Silencer
	TotAirSys (Total Air)
	TotAirSys (Gamma)
	Ending
8	79



Manifold components explanation and parts list



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

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

Related parts list

QR	Part name	Model No. (example)	Part name	Model No. (example)
3(1)		N4E00-JOINT-C18	Cartridge push-in fitting	N4E00-JOINT-CPG
B0		N4E00-JOINT-C3	and related parts	N4E00-JOINT-CPG
		N4E00-JOINT-C4		
B		N4E00-JOINT-CL18		
З	Cartridge push-in fitting	N4E00-JOINT-CL3		
AP	and related parts	N4E00-JOINT-CL4		
AP		N4E00-JOINT-C3N		
		N4E00-JOINT-C4N		
J		N4E00-JOINT-CL3N		
ΞX		N4E00-JOINT-CL4N]	

(master) 4F

4F

Internal structure and parts list 4GA/B

M4GA/B 3-port valve MN4GA/B

4GA/B

(master) 4GB With sensor

4GD/E

M4GD/E

MN4GD/E

4GA4/B4

MN3E MN4E

W4GA/B2

W4GB4

MN3S0 MN4S0

4SA/B0 4KA/B 4KA/B (master)

4F

4F (master) PV5G GMF

PV5 GMF

PV5S-0 3Q

MV3QR

3MA/B0

3PA/B

P/M/B

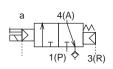
NP/NAP NVP

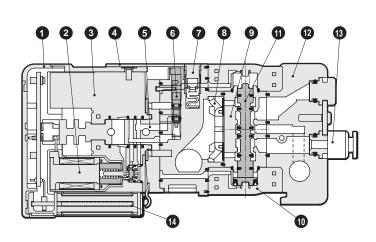
4G*0EJ 4F*0EX 4F*0E

HMV HSV

N3E0010

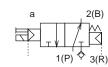
2-position single normally closed

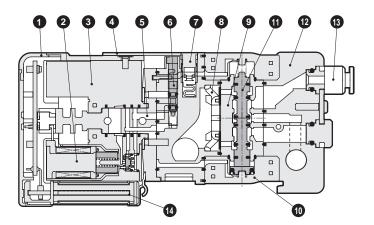




N3E00110

2-position single normally open





Main parts list

201/						
2QV 3QV	No.	Part name	Main material	No.	Part name	Main material
SKH	1	Wiring cover	PBT/PC	8	Check valve	PBT/TPU
01(11	2	Coil assembly	-	9	Body	ZDC
Silencer	3	Coil dummy	PPS	10	Piston chamber assembly	PPS/POM
TotAirSvs	4	Manual cover	РВТ	11	Spool assembly	AL
TotAirSys (Total Air)	5	Pilot block assembly	PPS	12	Port block assembly	PA
TotAirSys (Gamma)	6	Manual override	РОМ	13	Cartridge push-in fitting	-
(Gammá)	7	Connection key	POM	14	Wiring connector assembly	LCP

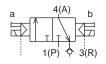
Ending

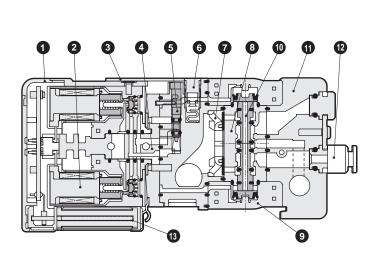


Reduced wiring block manifold (valve block); 3-port valve

N3E0020

 2-position double normally closed (self-hold)

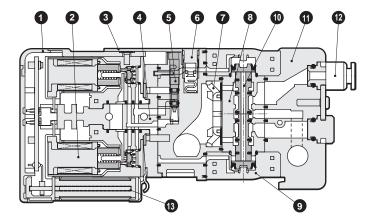




N3E00210

 2-position double normally open (self-hold)



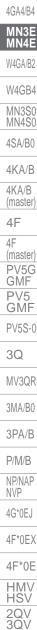


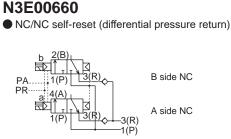
Main parts list

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

4GA/B M4GA/B MN4GA/B 4GA/B (master) 4GB With sensor 4GD/E M4GD/E MN4GD/E 4GA4/B4 MN3E MN4E W4GA/B2 W4GB4 MN3S0 MN4S0 4SA/B0 4KA/B 4KA/B (master) 4F 4F (master) PV5G GMF PV5 GMF PV5S-0 3Q MV3QR 3MA/B0 3PA/B P/M/B NP/NAP NVP 4G*0EJ 4F*0EX 4F*0E HMV HSV Н cer rSys Air) rSys ma) Ending 883

4GA/B M4GA/B MN4GA/B 4GA/B (master) 4GB With sensor 4GD/E M4GD/E MN4GD/E 4GA4/B4 MN3E MN4E W4GA/B2 W4GB4 MN3S0 MN4S0 4SA/B0 4KA/B 4KA/B (master) 4F 4F (master) PV5G GMF PV5 GMF



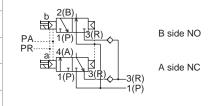


Internal structure and parts list

Two 3-port valves integrated

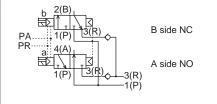
N3E00670

NC/NO self-reset (differential pressure return)



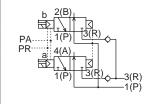
N3E00760

NO/NC self-reset (differential pressure return)

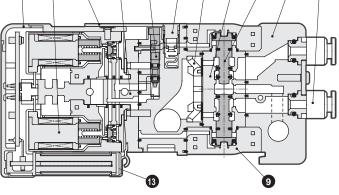


N3E00770

NO/NO self-reset (differential pressure return)







6

7

2

3

4

6

1

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

8

10

(11)

12

Main parts list

201/						
2QV 3QV	No.	Part name	Main material	No.	Part name	Main material
SKH	1	Wiring cover	PBT/PC	8	Body	ZDC
OIGH	2	Coil assembly	-	9	Piston chamber assembly	PPS/POM
Silencer	3	Manual cover	РВТ	10	Spool assembly	AL
Tot∆irSvs	4	Pilot block assembly	PPS	11	Port block assembly	PA
TotAirSys (Total Air)	5	Manual override	POM	12	Cartridge push-in fitting	-
TotAirSys	6	Connection key	POM	13	Wiring connector assembly	LCP
(Gammá)	7	Check valve	PBT/TPU			

Ending

4GA/B M4GA/B MN4GA/B

4GA/B (master 4GB

With sensor

4GD/E

M4GD/E

MN4GD/E

4GA4/B4 MN3E MN4E

W4GA/B2

W4GB4

MN3S0

MN4S0

4SA/B0

4KA/B 4KA/B

(master)

(master)

PV5G GMF

PV5

GMF

PV5S-0

3Q

MV3QR

3MA/B0

3PA/B

P/M/B

NP/NAP NVP

4G*0EJ

4F*0EX 4F*0E HMV HSV

4F

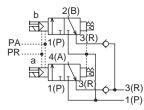
4F

Reduced wiring block manifold (valve block); with two 3-port valves integrated

Internal structure and parts list

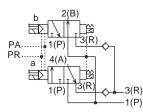
N3E0066S0

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



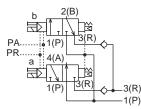
N3E0067S0

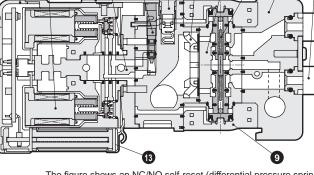
NC/NO self-reset (differential pressure spring return)



N3E0076S0

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

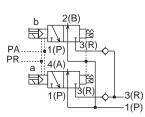




The figure shows an NC/NO self-reset (differential pressure spring return) with two 3-port valves integrated and both sides solenoid valves OFF.

N3E0077S0

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



Main parts list

No.	Part name	Main material	No.	Part name	Main material	2QV 3QV
1	Wiring cover	PBT/PC	8	Body	ZDC	SKH
2	Coil assembly	-	9	Piston chamber assembly	PPS/POM	51(11
3	Manual cover	РВТ	10	Spool assembly	AL	Silencer
4	Pilot block assembly	PPS	11	Port block assembly	PA	TotAirSve
5	Manual override	POM	12	Cartridge push-in fitting	-	TotAirSys (Total Air)
6	Connection key	POM	13	Wiring connector assembly	LCP	TotAirSys
7	Check valve	PBT/TPU				(Gammá)
4	Pilot block assembly Manual override Connection key	PPS POM POM	11 12	Port block assembly Cartridge push-in fitting	PA -	

2

1

3

4

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6

8

10

1

12

Ending



4GA/B Internal structure and parts list

MN4GA/B **N4E0010**

4-port valve

M4GA/B

4GA/B

(master) 4GB

With sensor

4GD/E

M4GD/E

MN4GD/E

4GA4/B4

MN3E MN4E

W4GA/B2

W4GB4 MN3S0 MN4S0

4KA/B

4KA/B

(master)

(master)

PV5G GMF

PV5 GMF

PV5S-0

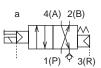
MV3QR 3MA/B0 3PA/B P/M/B NP/NAP 4G*0EJ 4F*0EX 4F*0EX

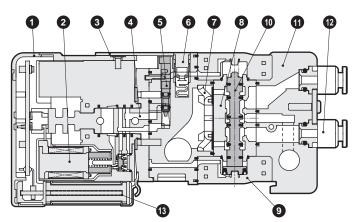
3Q

4F

4F

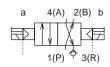
• 2-position single self-reset (differential pressure spring return)

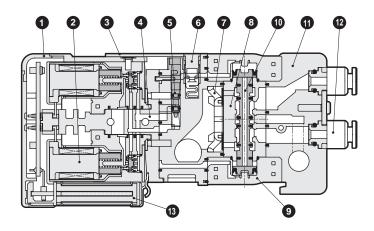




^{4SA/B0} N4E0020

2-position double self-hold





Main parts list

201/	Iviali	i parts list				
2QV 3QV	No.	Part name	Main material	No.	Part name	Main material
SKH	1	Wiring cover	PBT/PC	8	Body	ZDC
OITI	2	Coil assembly	-	9	Piston chamber assembly	PPS/POM
Silencer	3	Manual cover	РВТ	10	Spool assembly	AL
TotAirSvs	4	Pilot block assembly	PPS	11	Port block assembly	PA
TotAirSys (Total Air)	5	Manual override	POM	12	Cartridge push-in fitting	-
TotAirSys (Gamma)	6	Connection key	POM	13	Wiring connector assembly	LCP
(Gamma)	7	Check valve	PBT/TPU			

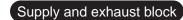
Ending

886

HMV HSV

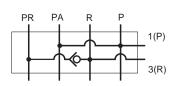
Reduced wiring block manifold (supply and exhaust block)

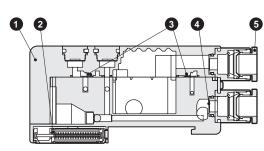
Internal structure and parts list

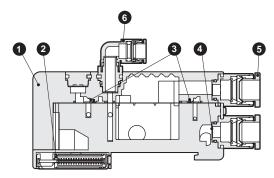


N4E0-Q

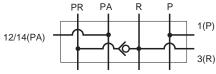
For internal pilot





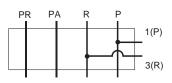


N4E0-QK ● For external pilot



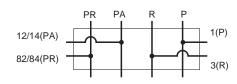
N4E0-QZ

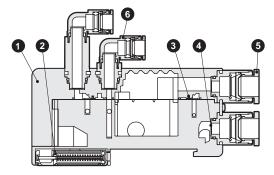
For multi-pressure circuit



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)	-

les	
ck)	
	4GA/B
	M4GA/B
	MN4GA/B
	4GA/B (master)
	4GB With sensor
	4GD/E
	M4GD/E
	MN4GD/E
	4GA4/B4
	MN3E MN4E
	W4GA/B2
	W4GB4
	MN3S0 MN4S0
	4SA/B0
	4KA/B
	4KA/B (master)
	4F
	4F (master)
	PV5G GMF
	PV5 GMF
	PV5S-0
	3Q
	MV3QR
	3MA/B0
	3PA/B
	P/M/B
	NP/NAP NVP
	4G*0EJ
	4F*0EX
	4F*0E
	HMV HSV
	2QV 3QV
	SKH
	Silencer
	TotAirSys (Total Air)
	TotAirSys (Gamma)
	Ending
8	87

4GA/B M4GA/B

4GA/B

(master)

With sensor

4GD/E

M4GD/E MN4GD/E

4GA4/B4 MN3E MN4E

W4GA/B2

W4GB4 MN3S0 MN4S0

4SA/B0

4KA/B

4KA/B

(master)

PV5G

GMF PV5 GMF PV5S-0

3Q

MV3QR

P/M/B NP/NAP NVP 4G*0EJ 4F*0EX 4F*0E HMV HSV

4F 4F (master)

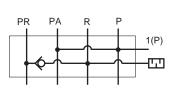
4GB

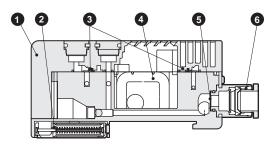
Internal structure and parts list

Supply and exhaust block

MN4GA/B N4E0-QX

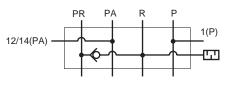
Atmosphere release for internal pilot

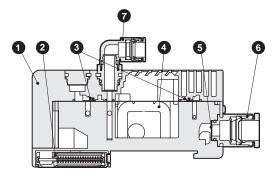




N4E0-QKX

Atmosphere release for external pilot





Main parts list

		•	
3MA/B0	No.	Part name	Main material
	1	Supply and exhaust block	PA
3PA/B	2	Wiring connector assembly	LCP
P/M/B	3	Check valve	TPU
	4	Exhaust filter	-
NP/NAP	5	Air supply filter	SUS
NVP	6	Cartridge push-in fitting (main piping section)	-
4G*0EJ	7	Cartridge push-in fitting (external pilot piping section)	-

Silencer TotAirSys (Total Air) TotAirSys (Gamma)

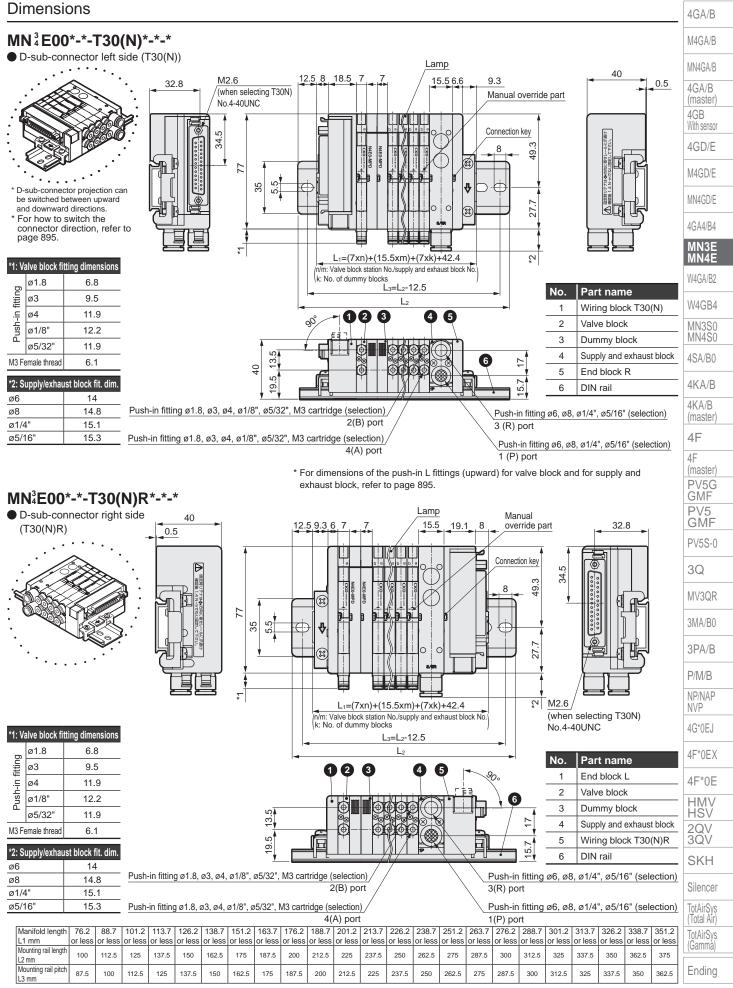
2QV 3QV

SKH

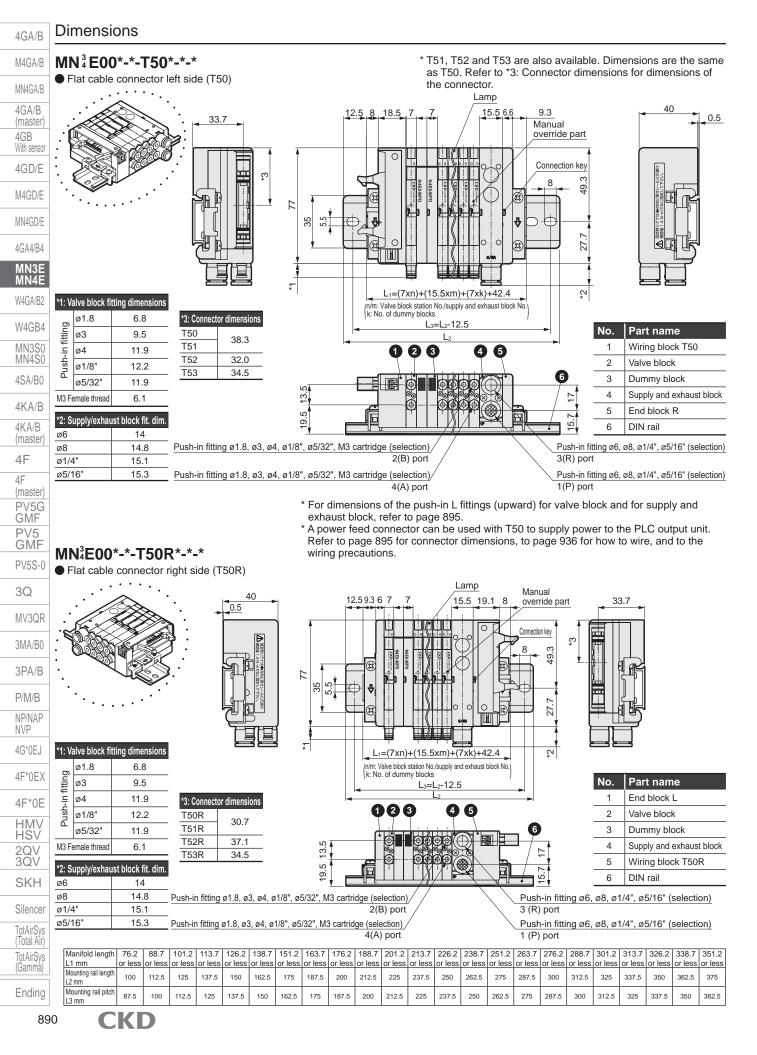
Ending

MN³₄**E00-T30**(**N**) _{Series}

Reduced wiring block manifold D-sub-connector

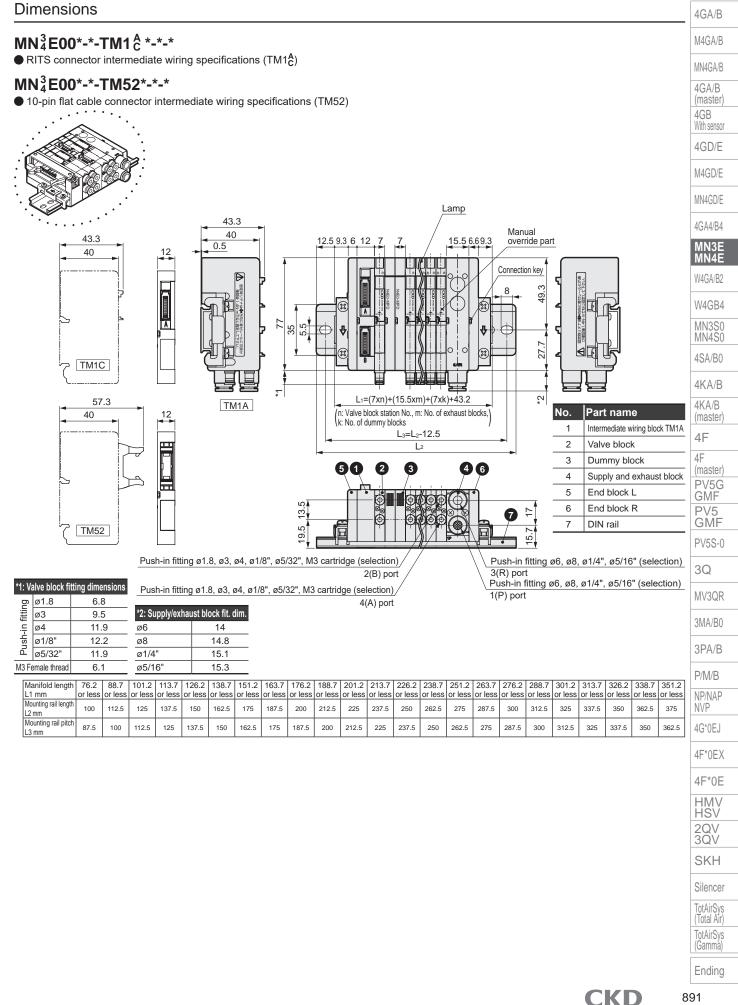


MN³₄E00-T50 Series



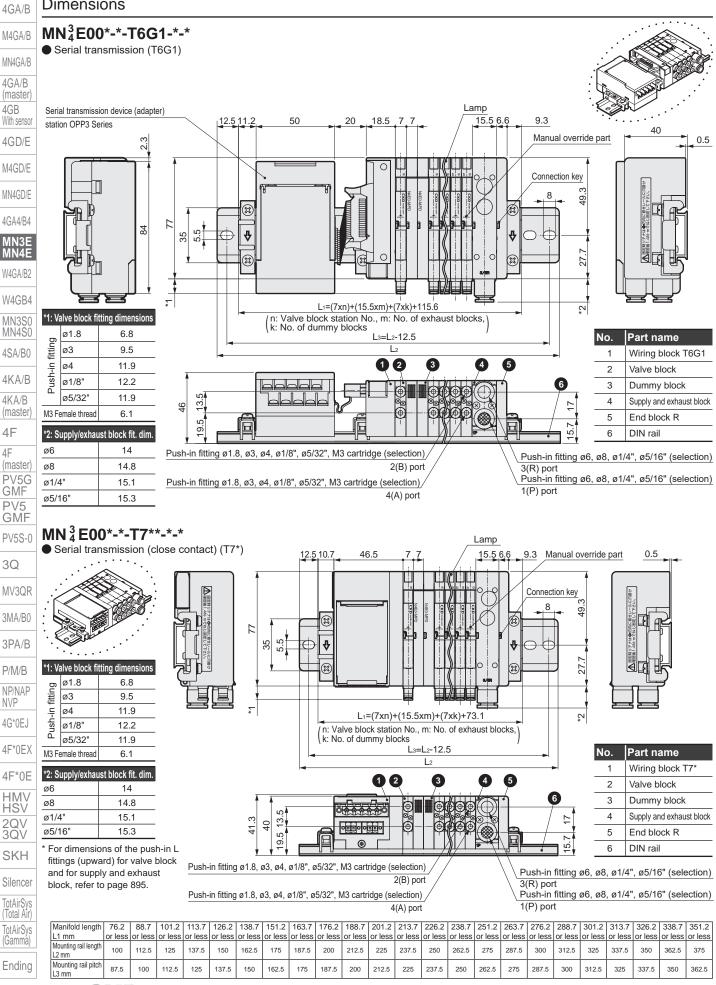
MN³₄E00-TM Series

Reduced wiring block manifold; intermediate/right wiring blocks

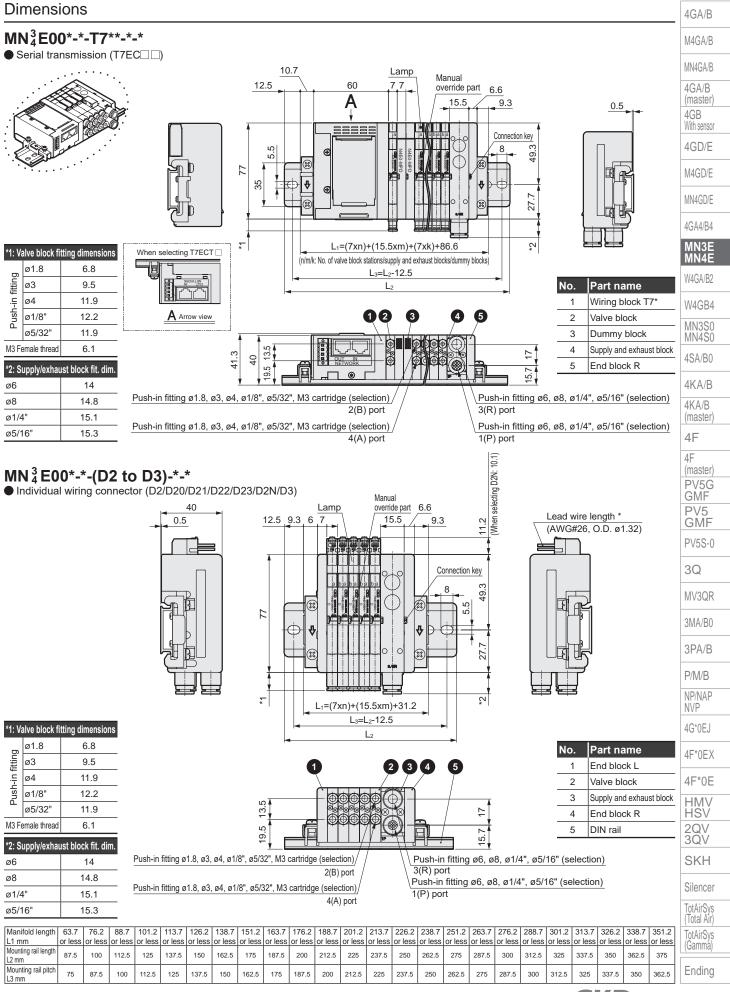


MN³₄E00-T6G1/T7* Series

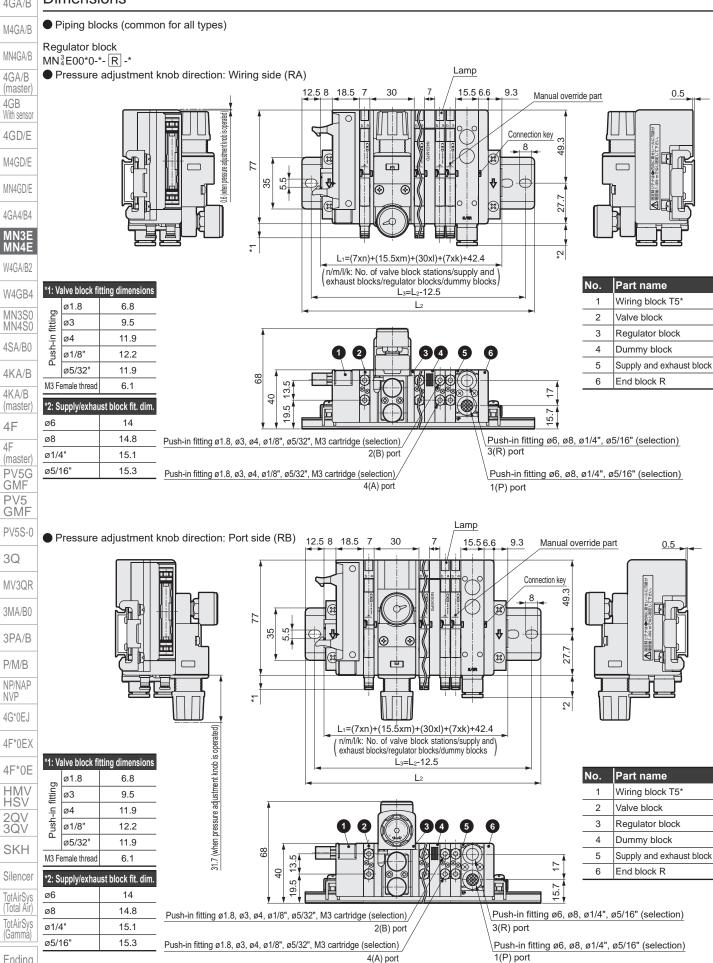
Dimensions



Reduced wiring block manifold



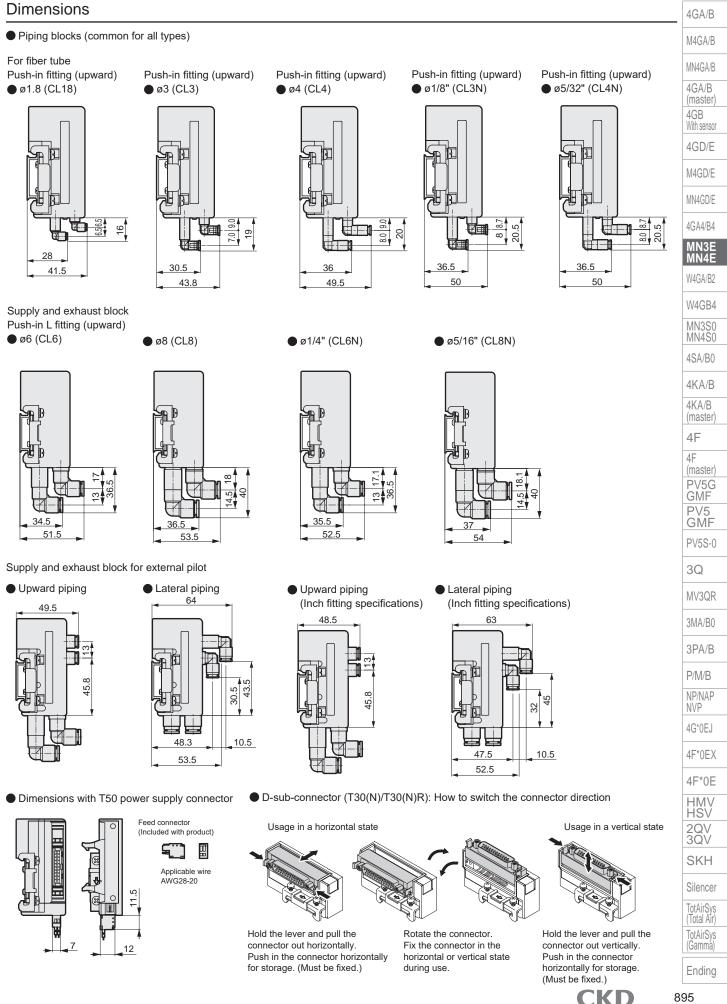
Dimensions 4GA/B



Ending

CKD

Reduced wiring block manifold



4KA/B

4KA/B (master) 4F

4F (master) PV5G GMF PV5 GMF

PV5S-0

MV3QR

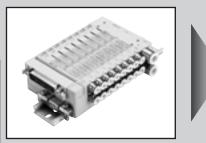
3MA/B0 3PA/B

P/M/B NP/NAP NVP 4G*0EJ 4F*0EX 4F*0E

HMV HSV 2QV 3QV

SKH

3Q



Reduced wiring block manifold Pilot operated 3, 4-port valve **MN3E0/MN4E0** Series



Common specifications

40D	Common spe		alions			
With sensor	ltem		Description			
4GD/E	Manifold method		Block manifolds			
	Manifold		Common supply/exhaust Exhaust check valve built-in (*1)			
M4GD/E	Working fluid		Compressed air			
MN4GD/E	Valve and operation		Pilot operated soft spool valve			
WIN4GD/E	Max. working pressure	MPa	0.7			
4GA4/B4	Min. working pressure	MPa	0.2			
	Proof pressure	MPa	1.05			
MN3E MN4E	Ambient temperature	°C	5 to 55			
	Fluid temperature °C		5 to 55			
W4GA/B2	Lubrication		Not required (*2)			
	Degree of protection		Dust-proof			
W4GB4	Vibration resistance	m/s ²	50 or less			
MN3S0	Shock resistance	m/s ²	300 or less			
MN4S0	Atmosphere		Cannot be used in corrosive gas environments			
4SA/B0	Manual override		Lock/Non-locking common or dedicated Non-lock			
10,000	*1. Chask value black	hading	angura from adiagont air Componenta, ata			

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

ltem		Description				
Rated voltage	V	12, 24 DC				
Voltage fluctuation	n range	±10% (When using serial transmission 10%, 5%)				
Holding current	24 VDC	0.025(0.013) (*3)				
A	12 VDC	0.05(0.025) (*3)				
Power consump-	24 VDC	0 6(0 2) (*2)				
tion W	12 VDC	0.6(0.3) (*3)				
Thermal class		В				
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			
	A/Port B	Pi	h-in fitting ø1.8, ø4, ø6, M5, fiber tube				
Port size	P/Port R	ø6, ø8 push-in fitting					
	External pilot port	ø6 push	-				
	External pilot port	øo pusi-	in nung	-			

*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

J													
2	ltem					MN3E0	/MN4E0						
_	nem		T30(N)	T50	T51	T52	T53	TM1A	TM1C	TM52	T6G1		
	Max. station	Standard wiring	24 stations	16 stations	18 stations	8 stations	24 stations	10 stations	5 stations	8 stations	16 stations		
	No.	Double wiring	12 stations	8 stations	9 stations	4 stations	12 stations	5 stations	2 stations	4 stations	8 stations		
_	Max. numb	per of solenoids	24 points	16 points	18 points	8 points	24 points	10 points	5 points	8 points	16 points		
J	• T7 🗆												

(ltom					MN3E00/	/MN4E00			
Ξ	Item		T7D1	T7D2	T7G1	T7G2	T7N1	T7N2	T7EC _D 1	T7EC⊡2
/	Max. station	Standard wiring	16 stations	32 stations	16 stations	32 stations	16 stations	32 stations	16 stations	32 stations
	No.	Double wiring	8 stations	16 stations	8 stations	16 stations	8 stations	16 stations	8 stations	16 stations
	Max. numb	per of solenoids	16 points	32 points	16 points	32 points	16 points	32 points	16 points	32 points
								•		

Performance/characteristics by model

Silencer	Performa	Performance/characteristics by model									
	Item	Port	3-port valve	4-port valve	Two 3-port valves integrated						
TotAirSys (Total Air)		2-position single	20 or less	20 or less	12 or less						
ŢotAirSys	Response time (*1) ms	Double	12 or less	12 or less	-						
(Gammá)	(1) 113	3-position	-	20 or less	-						

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

Ending

Reduced wiring block manifold

4GA/B M4GA/B MN4GA/B

4GA/B (master) 4GB With sensor

4GD/E M4GD/E MN4GD/E

4F

4F (master) PV5G GMF PV5

Flow characteristics

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

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

Device unit specifications

Item T6G1		T7D1 ^{·2} T7G1 ^{·1} T7D2 T7G2		T7N1 T7N2	T7EC⊟1 T7EC⊟2	4GA4/B4	
Power Unit side 24 VDC ±10%				24 VD0	C ±10%		MN4E
supply Valve side 24 VDC + 10% -5% voltage Unit side -		24 VDC + 10% -5%		24 VDC +	- 10% -5%		W4GA/B2
		-	11 to 25 VDC		-		
Current	L Init aida	100 mA or less	T7D1: 60 mA or less,	T7G1: 65 mA or less, T7G2: 90 mA or less	T7N1: 40 mA or less T7N2: 50 mA or less	120 mA or less	W4GB4
	Unit side	(When all points output ON)	T7D2: 85 mA or less (When all points output ON)	(When all points output ON)	MN3S0 MN4S0		
consumption	Valve side	15 mA or less (when all points OFF)	15 mA or less (when all points OFF)				
	Unit side	-	50 mA or less		-		4SA/B0
No. of I/O	nointo	16 points	T7D1: 16 points	T7G1: 16 points	T7N1: 16 points	T7EC_1: 16 points	
No. of I/O points		16 points	T7D2: 32 points	T7G2: 32 points	T7N2: 32 points	T7EC2: 32 points	4KA/B
Occupied number		1 station	T7D1: 2 bytes	T7G1: 1 station	T7N1: Output 16 points	T7EC 1: 1 address	4KA/B
		- Station	T7D2: 4 bytes	T7G2: 1 station T7N2: Output 32 points		T7EC 2: 1 address	(master)

*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

			D-sub-connector	Flat cable connector	Interme	diate wiri	ng block	Seria	l transmi		GI
Wiring block (g)		T30(N)	T5*	TM1A	TM1C	TM52	T6G1	T7*	T7EC*	PV5	
		67	59	32	32	34	205	128	145	3Q	
Supply and e	exhaust		Q/QZ	QK	QKZ		a	X	QKX	-	30
block		Fitting Lateral	64	69	7	'9	5	6	61		MV3
(g)	(g)	Fitting Upward	90	94	g	8	6	2	66	-	
			2-position single	2-position double	3-ро	sition	Two 3-port val	ves integrated			3MA
Valve block (g)	(a)	Fitting Lateral	47.5	52	53	3.5	5	2			
	(9)	Fitting Upward	54.5	59	60).5	5	9			3P
Dummy bloc	:k		MPS/MPD								DA
	(g)		20						-		P/N
Regulator bl	ock										NP/I
	(g) *1		124								NVF
End block			ER/EL								4G*
	(g)		40							-	
DIN rail			-								4F*
	(g)		0.19 g/mm								
1. The value	es may diff	er slightly ba	ased on the regulator block	specifications							4F

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

CKD

Ending

HMV HSV 2QV 3QV

SKH

Silencer TotAirSys (Total Air) TotAirSys (Gamma)

4GA/B	How to order manifold	D sub/fl	at cable connector * Refer to page 90	02 for serial tra	ansmission.
M4GA/B	Discrete valve block	(
MN4GA/B	N 3 E0 66 0 - C4 -	($M \qquad (D2) \qquad (F) \qquad (3)$		
4GA/B	• Block manifolds M(N) 4) E0 1) 0 - C4) -	- (R)-(M T53 D2 W F - 5 - 3	Ту	ре
(master) 4GB	$\gamma \gamma \gamma \gamma \gamma$	γ	$\gamma \rightarrow \gamma \gamma$	Block manifolds	Discrete valve block
With sensor	DIN rail Mounting Port size		al override Individual wiring Option Voltage Viring method Station No.		DIOCK
4GD/E	0	Adjustmer	- , ,		
M4GD/E			o fill in the "Manifold specifications sheet" (page 957).		
MN4GD/E		Code A Valve	Description type		
4GA4/B4	A Valve type	3	3-port valve or two 3-port valves integrated 4-port valve or 3, 4-port valve mix	•	
MN3E MN4E			oid position (*10)		
W4GA/B2	B Solenoid position	1 11			
W4GB4		2	Single NC self-reset (Differential pressure spring return) Single NO self-reset (Differential pressure spring return) Double NC self-hold Double NO self-hold		
MN3S0		66 66S	E A side valve: NC self-reset B (Differential pressure return)		
MN4S0		67	Biside valve: NC self-reset (Differential pressure spring return) A side valve: NC self-reset B (Differential pressure return)		
4SA/B0		67S 76	Side valve: NO self-reset (Differential pressure spring return) Image: Side valve: NO self-reset (Differential pressure return)	•	
4KA/B	 For model No. of the cable with D-sub-connector, refer to page 935. 	76S 77	33 side valve: NC self-reset (Differential pressure spring return) 34 side valve: NC self-reset B (Differential pressure return) 35 side valve: NO self-reset B (Differential pressure spring return) 36 A side valve: NO self-reset B (Differential pressure return) 37 A side valve: NO self-reset B (Differential pressure spring return) 36 A side valve: NO self-reset B (Differential pressure return) 36 A side valve: NO self-reset B (Differential pressure return) 36 side valve: NO self-reset B (Differential pressure spring return) 36 side valve: NO self-reset B (Differential pressure spring return)		
4KA/B (master)		77\$	g 2-position single self-reset (Differential pressure spring return)		
4F		2 3 4	2-position double self-hold 3-position all ports closed		
4F	A Precautions for model No. selection	4 5 8	General Section all ports closed General Section Section A/B/R connection Section A/B/R connection Mix manifold		
(master) PV5G	*1: The two 3-port valves integrated type cannot	C Port s			
GMF	be used with the external pilot. Consult with	CF	ø1.8 barbed fitting (compatible tube UP-9102-**)		•
PV5 GMF	CKD for other working conditions. *2: The two 3-port valves integrated resets the	C18 CL18	ø1.8 push-in fitting lateral (compatible tube UP-9402-**) ø1.8 push-in fitting upward (compatible tube UP-9402-**)		
PV5S-0	main valve with the main pressure, so if	C4 CL4	ø4 push-in fitting lateral ø4 push-in fitting upward		
	there is a difference between the pilot pressure and main pressure, the response	C6 CL6	ø6 push-in fitting lateral ø6 push-in fitting upward		•
3Q	time may be delayed. *3: Check that the main pressure supplied to	M5 CX	M5#Thread(with rotation-stop) Mix push-in fitting (*12)		
MV3QR	the valve block with two 3-port valves	C3N	ø1/8" push-in fitting lateral		
3MA/B0	integrated is not higher than the pilot pressure, and that the main pressure does	C4N CL3N	ø5/32" push-in fitting lateral ø1/8" push-in fitting Up		
3PA/B	not drop below 0.2MPa.	CL4N CXN	ø5/32" push-in fitting Up Mix push-in fitting (*12)	•	•
	*4: Check the connector pin array (example) given on pages 934 to 941	_	tment function		
P/M/B	for the double wiring specifications.	Blank R	Without regulator block Regulator block equipped manifold (*2)(*3)		
NP/NAP NVP	When ordering individual valve blocks, the double wiring designation is limited to the		al override		
4G*0EJ	4-position single solenoid for the 2-port	Blank	Locking/non-locking common (with manual cover)		
4F*0EX	valve and to the 3-position single solenoid for the 2-port valve.	M F Wiring	Manual override for non-locking (with manual cover)		
	*5: Double wiring is not available for discrete individual wiring valve block.		e following page for the wiring method.		
4F*0E	*6: Energizing is limited to the plus common. Also,	-	nal/connector pin array		
HMV HSV	"E" and "U" cannot be selected together. *7: Individual wiring,"U"cannot be selected together.	Blank W	Standard wiring Double wiring (*4))(*5)		
2QV	*8: A filter (for preventing entry of foreign	H Optio	1		
3QV	matter) is incorporated in the supply and exhaust block's port P.	Blank E	No Low exoergic/energy circuit type (*6)		
SKH	*9: Differs depending on the	U	Built-in individual power supply function (AUX) type (*6)(*7)		
Silencer	specifications. Refer to page 896. *10: For specifications of the self-reset,	A F	Ozone-proof product Port A/B filter integrated (*8)		•
TotAirSys (Total Air)	refer to the precautions on page 959.	Statio			(*11)
TotAirSys	To include a dummy block, select mix manifold. *11: A dummy block is counted in the station No.	1 to	1 stations to	•	
(Gammá)	*12: Inch fittings cannot be mixed with metric fittings and M5 female threads	24	24 stations (*9)		
Ending	fittings and M5 female threads.	J Voltag	e 24 VDC		
89	⁸ CKD	4	12 VDC	Ŏ	I

Reduced wiring block manifold

4GA/B M4GA/B 4GA/B 4GA/B (master) 4GB With sensor 4GD/E M4GD/E M4GD/E 4GA4/B4 MN3E MN4E W4GA/B2

W4GB4 MN3S0 MN4S0 4SA/B0 4KA/B 4KA/B 4KA/B 4KA/B 4F (master) 4F 4F (master) PV5G GMF PV5 GMF

PV5S-0

MV3QR 3MA/B0

3PA/B

P/M/B NP/NAP NVP

4G*0EJ

4F*0EX

4F*0E HMV HSV

2QV 3QV

SKH

Silencer TotAirSys (Total Air) TotAirSys (Gamma)

3Q

			Ту	ре
			Block	Discrete valve
			manifolds	block
	me	ethod list]		
Code		Description		×
F Wiring	g me	ethod		
T30(N)	25-р	in D-sub-connector Left-sided spec.	•	
T30(N)R	25-р	in D-sub-connector Right-sided spec.	•	
T50	· ·	n flat cable connector Left-sided spec. (with power supply terminal) (*13)	•	
T50R	20-pii	n flat cable connector Right-sided spec. (with power supply terminal) (*13)	•	
T51	20-р	in flat cable connector Left-sided spec.	•	
T51R	20-р	in flat cable connector Right-sided spec.	•	
T52	10-р	in flat cable connector Left-sided spec.	•	
T52R	10-р	in flat cable connector Right-sided spec.	•	
T53	26-р	in flat cable connector Left-sided spec.	•	
T53R	26-р	in flat cable connector Right-sided spec.	•	
TM1A	Inter	mediate wiring block RITS connector 6P×2 pieces (*14)	•	
TM1C	Inter	mediate wiring block RITS connector 6P (*14)	•	
TM52	Inter	mediate wiring block 10-pin flat cable connector	•	
ТХ	Wirir	ng block mix(*15) (*16) (*17)	•	
Blank	Valv	e block for reduced wiring		•
D2		D-connector 300 mm	•	•
D20	ng	D-connector 500 mm	•	•
D21	wiri	D-connector 1000 mm	•	•
D22	Individual wiring	D-connector 2000 mm	•	•
D23	livid	D-connector 3000 mm	•	•
D2N	lnd	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-proof specifications

Select option "A" for Item \bigoplus in How to order on pages 898 and 902.

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

Anti-dust generation structure for use in cleanrooms

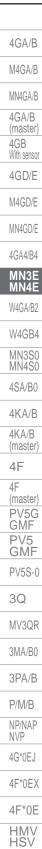
** - Voltage- (**P70**)

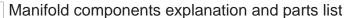
CE marking specifications

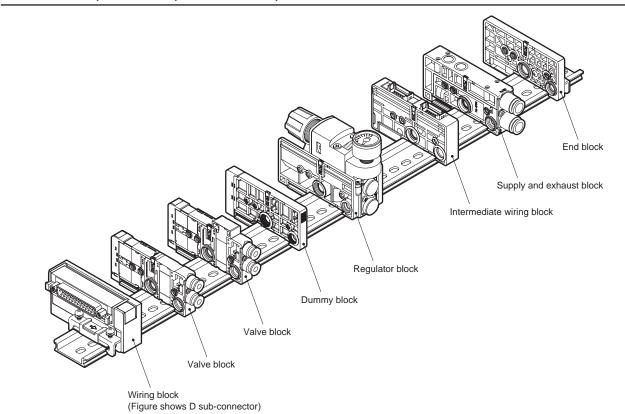
** - Voltage - ST

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

Ending







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

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

Related parts list

/B0		N4E0-JOINT-C18	Cartridge push-in fitting	N4E0-JOINT-CF
/B0				
		N4E0-JOINT-C4	and related parts	N4E0-JOINT-CPG
-		N4E0-JOINT-C6		· · · · · · · · · · · · · · · · · · ·
/B		N4E0-JOINT-CL18		
B Cartridge	Cartridge push-in fitting and related parts	N4E0-JOINT-CL4		
and related		N4E0-JOINT-CL6		
\P		N4E0-JOINT-C3N		
1		N4E0-JOINT-C4N		
J		N4E0-JOINT-CL3N		
X		N4E0-JOINT-CL4N		

2QV 3QV SKH

Silencer TotAirSys (Total Air)

TotAirSys (Gamma)

ammaj

Ending 900

	How to order manifold Seria	l transmissi	on * Refer to page 898 for the D-sub-connect	tor/flat cable c	opportor
4GA/B	Discrete valve block	11 11 11 11 11 11 11 11 11 11 11 11 11	Refer to page 696 for the D-sub-connec		onnector.
M4GA/B	N 3 E0 66 0- C4 -	(M D2 F 3		
MN4GA/B	Block manifolds	\frown		Tv	pe
4GA/B (master) 4GB	M(N)(4)E0(1)0-(C4)-	\bigvee	$\mathbf{M} \underbrace{\mathbf{T6G1}}_{\mathbf{D2}} \underbrace{\mathbf{W}}_{\mathbf{F}} - \underbrace{5}_{\mathbf{-3}}$	Block	Discrete valve
With sensor	DIN rail Mounting C Port size		nual override Individual wiring Option OVoltage firing connection method (serial transmission) Station No.	manifolds	block
4GD/E	0	Adjustmer			
M4GD/E			to fill in the "Manifold specifications sheet" (page 957).		
MN4GD/E		Code	Description		-
4GA4/B4	A Valve type	A Valve	Type 3-port valve or two 3-port valves integrated		
MN3E		4	4-port valve or 3, 4-port valve mix	•	•
MN4E	B Solenoid position	_	oid position (*10)		
W4GA/B2		1 11	Single NC self-reset (Differential pressure spring return) Single NO self-reset (Differential pressure spring return) Double NC self-hold Double NC self-hold		
W4GB4		2 21	buble NC self-hold	•	
MN3S0		66 66S	Image: Side valve: NC self-reset B (Differential pressure return) Image: Side valve: NC self-reset (Differential pressure spring return)		
MN4S0		67 67S	A side valve: NC self-reset B (Differential pressure return)		
4SA/B0		76	iside valve: NO self-reset (Differential pressure spring return) A side valve: NO self-reset B (Differential pressure return)		
4KA/B		76S 77	A side valve: NO self-reset Side valve: NO self-reset		
4KA/B		77S 1	2-position single self-reset (Differential pressure spring return)		
(master)	Precautions for model No. selection	2			
4F	*1: The two 3-port valves integrated type cannot	4	C 3-position A/B/R connection S-position P/A/B connection		
4F (master)	be used with the external pilot. Consult with	8	Mix manifold	Ŏ	
PV5G GMF	CKD for other working conditions. *2: The two 3-port valves integrated type resets	C Port s			
PV5	the main valve with the main pressure, so if	CF C18	ø1.8 barbed fitting (compatible tube UP-9102-**) ø1.8 push-in fitting lateral (compatible tube UP-9402-**)		
GMF	there is a difference between the pilot	CL18 C4	ø1.8 push-in fitting upward (compatible tube UP-9402-**) ø4 push-in fitting lateral		
PV5S-0	pressure and main pressure, the response time may be delayed.	CL4	ø4 push-in fitting upward ø6 push-in fitting lateral		
3Q	*3: Check that the main pressure supplied to	C6 CL6	ø6 push-in fitting upward		
	the valve block with two 3-port valves integrated is not higher than the pilot	M5 CX	M5#Thread(with rotation-stop) Mix push-in fitting (*12)		
MV3QR	pressure, and that the main pressure does	C3N C4N	ø1/8" push-in fitting lateral ø5/32" push-in fitting lateral		
3MA/B0	not drop below 0.2 MPa. *4: Check the connector pin array	CL3N CL4N	ø1/8" push-in fitting upward ø5/32" push-in fitting upward		
3PA/B	(example) given on pages 944 to 948	CXN	Mix push-in fitting (*12)	•	•
	for the double wiring specifications. When ordering individual valve blocks, the		tment function	-	
P/M/B	double wiring designation is limited to the	Blank R	Without regulator block Regulator block equipped manifold (*2) (*3)	•	
NP/NAP NVP	4-position single solenoid for the 2-port valve and to the 3-position single solenoid		al override		
4G*0EJ	for the 2-port valve.	Blank M	Locking/non-locking common (with manual cover) Manual override for non-locking (with manual cover)	•	
4F*0EX	*5: Double wiring is not available for discrete individual wiring valve blocks.	F Wiring	· · · · · · · · · · · · · · · · · · ·		
4F*0E	*6: Energizing is limited to the plus common. Also, "E" and "U" cannot be selected together.	Refer to the	following page for the wiring method.		
HMV	*7: "U" is not available for individual wiring.*8: A filter (for preventing entry of foreign	G Termi Blank	nal/connector pin array Standard wiring		
HSV	matter) is incorporated in the supply and	W	Double wiring (*4)(*5)	•	•
2QV 3QV	exhaust block's port P. *9: Differs depending on the	H Optio			
SKH	specifications. Refer to page 896.	Blank E	No Low excergic/energy circuit type (*6)		
Silencer	*10: For specifications of the self-reset, refer to the precautions on page 959.	U A	Built-in individual power supply function (AUX) type (*6)(*7) Ozone-proof product Dort A/P filter interacted (*8)		
TotAirSys	When including dummy blocks,Select a mix manifold.	F Statio	Port A/B filter integrated (*8) n No.		(*11)
(Total Air) TotAirSys	*11: A dummy block is counted in the station No.	1	1 stations		
(Gamma)	*12: Inch fittings cannot be mixed with metric fittings and M5 female threads.	to 32	to 32 stations (*9)		
Ending		J Voltag	je		
90	² CKD	3	24 VDC		
00					

Reduced wiring block manifold

			Ту	Туре		
			Block manifolds	Discrete valve block		
Wiring	me	ethod list]				
Code		Description	C. AND			
F Wirin	<u> </u>					
T6G1	1	Link 16 points	•			
T7D1	+	se contact type DeviceNet 16 points	•			
T7D2	+	se contact type DeviceNet 32 points	•			
T7G1		se contact type CC-Link 16 points	•			
T7G2		e contact type CC-Link 32 points	•			
T7N1	-	e contact type S-LINK V 16 points	•			
T7N2	-	e contact type S-LINK V 32 points	•			
T7EC1		e contact EtherCAT 16 points (port side leadout)	•			
T7EC2		e contact EtherCAT 32 points (port side leadout)	•			
T7ECT1	+	e contact EtherCAT 16 points (wiring side leadout)	•			
T7ECT2		e contact EtherCAT 32 points (wiring side leadout)	•	-		
Blank	Valv	e block for reduced wiring		•		
D2	D-connector Lead wire length 300 mm		•	•		
D20	wiring	D-connector Lead wire length 500 mm	•	•		
D21		D-connector Lead wire length 1000 mm	•	•		
D22	ndividual	D-connector Lead wire length 2000 mm	•	•		
D23	divid	D-connector Lead wire length 3000 mm	•	•		
D2N	D-connector without lead wire without socket		•	•		
D3		D-connector without lead wire with socket/terminal	•	•		
Ozone	-pro	oof specifications				

Select option "A" for Item \bigoplus 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

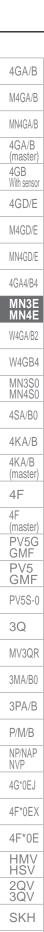
** - Voltage - ST

- 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.

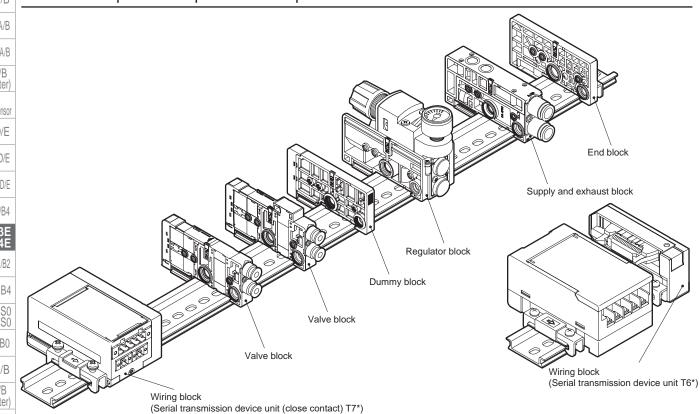
MN4GA/B 4GA/B (master) 4GB With sensor 4GD/E M4GD/E MN4GD/E 4GA4/B4 MN3E MN4E W4GA/B2 W4GB4 MN3S0 MN4S0 4SA/B0 4KA/B 4KA/B (master) 4F 4F (master) PV5G GMF PV5 GMF PV5S-0 3Q MV3QR 3MA/B0 3PA/B P/M/B NP/NAP NVP 4G*0EJ 4F*0EX 4F*0E HMV HSV 2QV 3QV SKH Silencer TotAirSys (Total Air) TotAirSys (Gamma) Ending 903

CKD

4GA/B M4GA/B







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

	· · · ·	(I	, , , , , , , , , , , , , , , , , , , ,			
er)	Part name	Model No. (example)	Part name	Model No. (example)		
G	Wiring block	N4E0-T7G2	Regulator block	N4E0-RA-RL		
5	Valve block	N4E020-C4-3	Supply and exhaust block	N4E0-Q-8		
		N4E030-C4-3	End block	N4E0-ER		
1	Dummy block	N4E0-MPD				
(Λ)						

Related parts list

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

Ending

Silencer TotAirSys (Total Air)

TotAirSys (Gamma)

4GA/B Internal structure and parts list

M4GA/B 3-port valve

MN4GA/B

4GA/B

(master) 4GB

With sensor

4GD/E

M4GD/E

MN4GD/E

4GA4/B4 MN3E MN4E

W4GA/B2

W4GB4

MN3S0 MN4S0

4SA/B0 4KA/B 4KA/B (master)

4F

4F (master) PV5G GMF

PV5 GMF

PV5S-0

3Q

MV3QR

3MA/B0 3PA/B

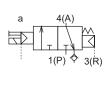
P/M/B NP/NAP NVP

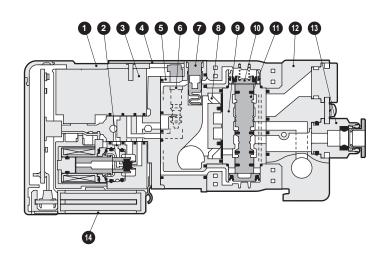
4G*0EJ 4F*0EX 4F*0E

HMV HSV

N3E010

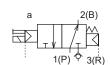
2-position single normally closed

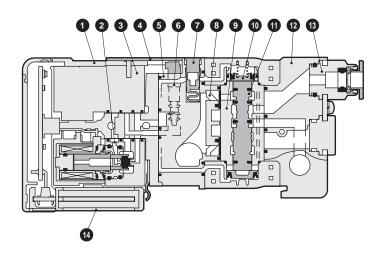




N3E0110

• 2-position single normally open





Main parts list

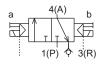
201/	Iviali	i parts list				
2QV 3QV	No.	Part name	Main material	No.	Part name	Main material
SKH	1	Wiring cover	PBT/PC	8	Check valve	PBT/TPU
UNIT	2	Coil assembly	-	9	Body	Aluminum
Silencer	3	Coil dummy	PPS	10	Piston chamber assembly	-
TotAirSvs	4	Manual cover	РВТ	11	Spool assembly	Aluminum
TotAirSys (Total Air)	5	Pilot block	PPS/PA	12	Port block	PA
TotAirSys (Gamma)	6	Manual override	POM	13	Cartridge push-in fitting	-
(Gamma)	7	Connection key	РОМ	14	Wiring connector assembly	LCP

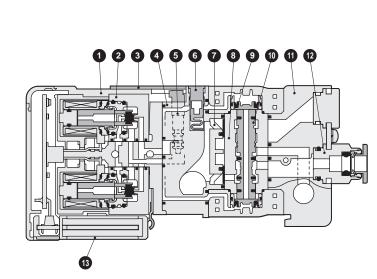
Ending

Reduced wiring block manifold (valve block); 3-port valve

N3E020

2-position double normally closed (self-hold)

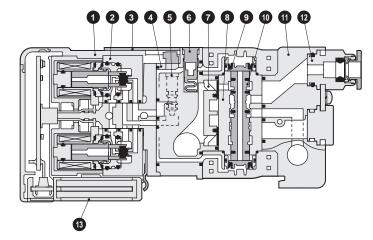




N3E0210

2-position double normally open (self-hold)





Main parts list

		•								
Part name	Main material	No.	Part name	Main material	2QV 3QV					
Wiring cover	PBT/PC	8	Body	Aluminum	SKH					
Coil assembly	-	9	Piston chamber assembly	-						
Manual cover	РВТ	10	Spool assembly	Aluminum	Silencer					
Pilot block	PPS/PA	11	Port block	PA	Tot∆irSvs					
Manual override	POM	12	Cartridge push-in fitting	-	TotAirSys (Total Air)					
Connection key	POM	13	Wiring connector assembly	LCP	TotAirSys					
Check valve	PBT/TPU				(Gamma)					
	Viring cover Coil assembly Manual cover Pilot block Manual override Connection key	Wiring cover PBT/PC Coil assembly - Manual cover PBT Pilot block PPS/PA Manual override POM Connection key POM	Wiring coverPBT/PC8Coil assembly-9Manual coverPBT10Pilot blockPPS/PA11Manual overridePOM12Connection keyPOM13	Wiring cover PBT/PC 8 Body Coil assembly - 9 Piston chamber assembly Manual cover PBT 10 Spool assembly Pilot block PPS/PA 11 Port block Manual override POM 12 Cartridge push-in fitting Connection key POM 13 Wiring connector assembly	Wiring coverPBT/PC8BodyAluminumCoil assembly-9Piston chamber assembly-Manual coverPBT10Spool assemblyAluminumPilot blockPPS/PA11Port blockPAManual overridePOM12Cartridge push-in fitting-Connection keyPOM13Wiring connector assemblyLCP					

M4GA/B MN4GA/B 4GA/B (master) 4GB With sensor 4GD/E M4GD/E MN4GD/E 4GA4/B4 MN3E MN4E W4GA/B2 W4GB4 MN3S0 MN4S0 4SA/B0 4KA/B 4KA/B (master) 4F 4F (master) PV5G GMF PV5 GMF **PV5S-0** 3Q MV3QR 3MA/B0 3PA/B P/M/B NP/NAP NVP 4G*0EJ 4F*0EX 4F*0E HMV HSV Ending

4GA/B

MN3E0 Series

4GA/B M4GA/B MN4GA/B 4GA/B (master) 4GB With sensor 4GD/E M4GD/E MN4GD/E 4GA4/B4 MN3E MN4E W4GA/B2 W4GB4

MN3S0

MN4S0

4SA/B0

4KA/B 4KA/B (master)

4F

4F

GMF

PV5

GMF

3Q

MV3QR

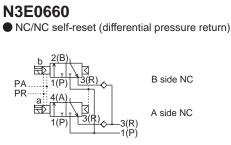
3MA/B0 3PA/B

P/M/B

NP/NAP

4G*0EJ 4F*0EX 4F*0E

NVP

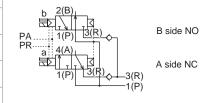


Internal structure and parts list

Two 3-port valves integrated

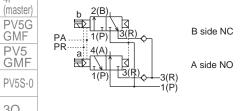
N3E0670

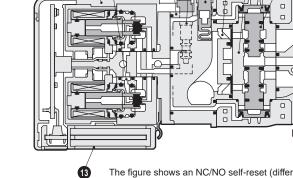
NC/NO self-reset (differential pressure return)



N3E0760

NO/NC self-reset (differential pressure return)





3

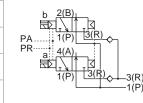
2 0

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

456789000

N3E0770

NO/NO self-reset (differential pressure return)





HMV HSV	Main parts list					
2QV 3QV	No.	Part name	Main material	No.	Part name	Main material
SKH	1	Wiring cover	PBT/PC	8	Body	Aluminum
OIGH	2	Coil assembly	-	9	Piston chamber assembly	-
Silencer	3	Manual cover	PBT	10	Spool assembly	Aluminum
TotAirSvs	4	Pilot block	PPS/PA	11	Port block	PA
TotAirSys (Total Air)	5	Manual override	POM	12	Cartridge push-in fitting	-
TotAirSys (Gamma)	6	Connection key	POM	13	Wiring connector assembly	LCP
(Gamma)	7	Check valve	PBT/TPU			

Ending

MN3E0 Series

4GA/B M4GA/B MN4GA/B

4GA/B (master 4GB

With sensor

4GD/E

M4GD/E

MN4GD/E

4GA4/B4 MN3E MN4E

W4GA/B2

W4GB4

MN3S0

MN4S0

4SA/B0

4KA/B 4KA/B (master)

4F

4F

(master)

PV5G GMF

PV5

GMF

PV5S-0

3Q

MV3QR

3MA/B0

3PA/B

P/M/B

NP/NAP NVP

4G*0EJ

4F*0EX 4F*0E

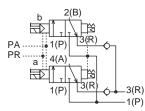
HMV HSV

Reduced wiring block manifold (valve block); with two 3-port valves integrated

Internal structure and parts list

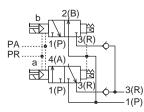
N3E066S0

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



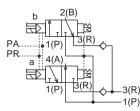
N3E067S0

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



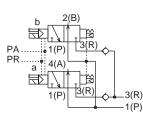
N3E076S0

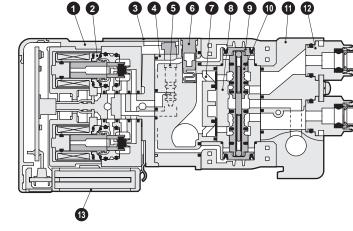
NO/NC self-reset (differential pressure spring return)



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

						1201/
No.	Part name	Main material	No.	Part name	Main material	2QV 3QV
1	Wiring cover	PBT/PC	8	Body	Aluminum	SKH
2	Coil assembly	-	9	Piston chamber assembly	-	
3	Manual cover	РВТ	10	Spool assembly	Aluminum	Silencer
4	Pilot block	PPS/PA	11	Port block	PA	TotAirSvs
5	Manual override	РОМ	12	Cartridge push-in fitting	-	TotAirSys (Total Air)
6	Connection key	РОМ	13	Wiring connector assembly	LCP	TotAirSys
7	Check valve	PBT/TPU				(Gammá)

Ending



MN4E0 Series

Internal structure and parts list 4GA/B

MN4GA/B N4E010

4-port valve

M4GA/B

4GA/B

(master)

With sensor

4GD/E

M4GD/E

MN4GD/E 4GA4/B4

W4GA/B2

W4GB4

MN3S0

MN4S0

4SA/B0

4KA/B

4KA/B

(master) 4F

(master) PV5G

GMF PV5

GMF

PV5S-0

MV3QR

3MA/B0

3PA/B

P/M/B

NP/NAP

4G*0EJ

4F*0EX 4F*0E

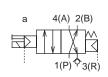
NVP

3Q

4F

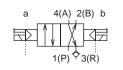
4GB

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



MN3E MN4E N4E020

2-position double self-hold





3-position all ports closed

а	4(A)	2	(B)	, b
₩	1,	1.	5	X	1
	1(F			3(R	

N4E040

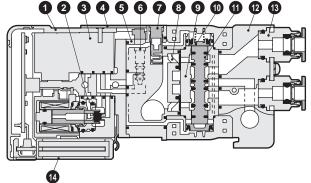
3-position A/B/R connection

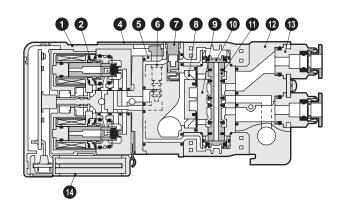
4(A) 2(B) b а

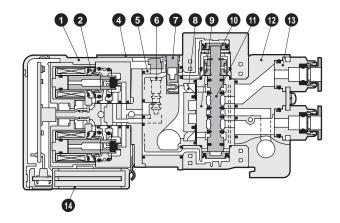
N4E050

3-position P/A/B connection









HMV HSV	Main parts list					
2QV 3QV	No.	Part name	Main material	No.	Part name	Main material
SKH	1	Wiring cover	PBT/PC	8	Check valve	PBT/TPU
OIGH	2	Coil assembly	PPS/POM/PBT	9	Body	Aluminum
Silencer	3	Coil dummy	PPS	10	Piston chamber assembly	PPS/POM
TotAirSvs	4	Manual cover	PBT	11	Spool assembly	Aluminum
TotAirSys (Total Air)	5	Pilot block	PPS/PA	12	Port block	PA
TotAirSys (Gamma)	6	Manual override	POM	13	Cartridge push-in fitting	-
(Gamma)	7	Connection key	POM	14	Wiring connector assembly	LCP

Ending

910

MN4E0 Series

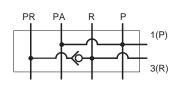
Reduced wiring block manifold (supply and exhaust block)

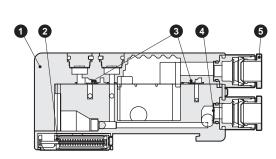
Internal structure and parts list

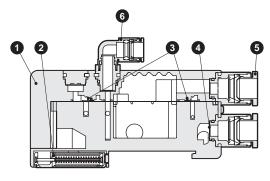
Supply and exhaust block

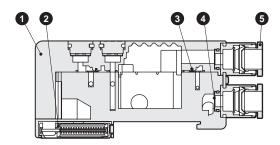
N4E0-Q

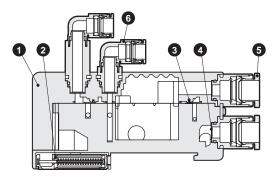
For internal pilot





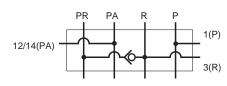






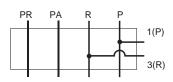
N4E0-QK

For external pilot



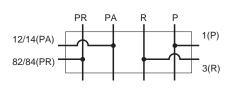
N4E0-QZ

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)	-			

k)	
_	4GA/B
	M4GA/B
	MN4GA/B
	4GA/B (master)
	4GB With sensor
	4GD/E
	M4GD/E
	MN4GD/E
	4GA4/B4
	MN3E MN4E
	W4GA/B2
	W4GB4
	MN3S0 MN4S0
	4SA/B0
	4KA/B
	4KA/B (master)
	4F
	4F (master)
	PV5G GMF
	PV5 GMF
	PV5S-0
	3Q
	MV3QR
	3MA/B0
	3PA/B
	P/M/B
	NP/NAP NVP
	4G*0EJ
	4F*0EX
	4F*0E
	HMV HSV
	2QV 3QV
	SKH
	Silencer
	TotAirSys (Total Air)
	TotAirSys (Gamma)
	Ending
9	11

4GA/B M4GA/B

4GA/B

(master)

4GD/E

M4GD/E

MN4GD/E

4GA4/B4 MN3E MN4E

W4GA/B2

W4GB4 MN3S0 MN4S0

4SA/B0

4KA/B

4KA/B

(master)

4F

4F (master) PV5G GMF

PV5 GMF PV5S-0

3Q

MV3QR

3MA/B0 3PA/B

P/M/B NP/NAP 4G*0EJ 4F*0EX 4F*0E HMV HSV

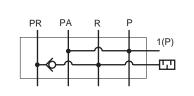
4GB With sensor

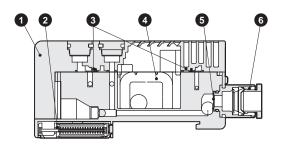
Internal structure and parts list

MN4GA/B N4E0-QX

Atmosphere release for internal pilot

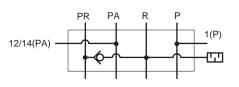
Supply and exhaust block

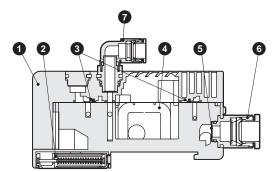




N4E0-QKX

Atmosphere release for external pilot





Main parts list

_	· · · · · · · · · · · · · · · · · · ·				
)	No.	Part name	Main material		
_	1	Supply and exhaust block	PA		
5	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)	-		

TotAirSys (Gamma) Ending

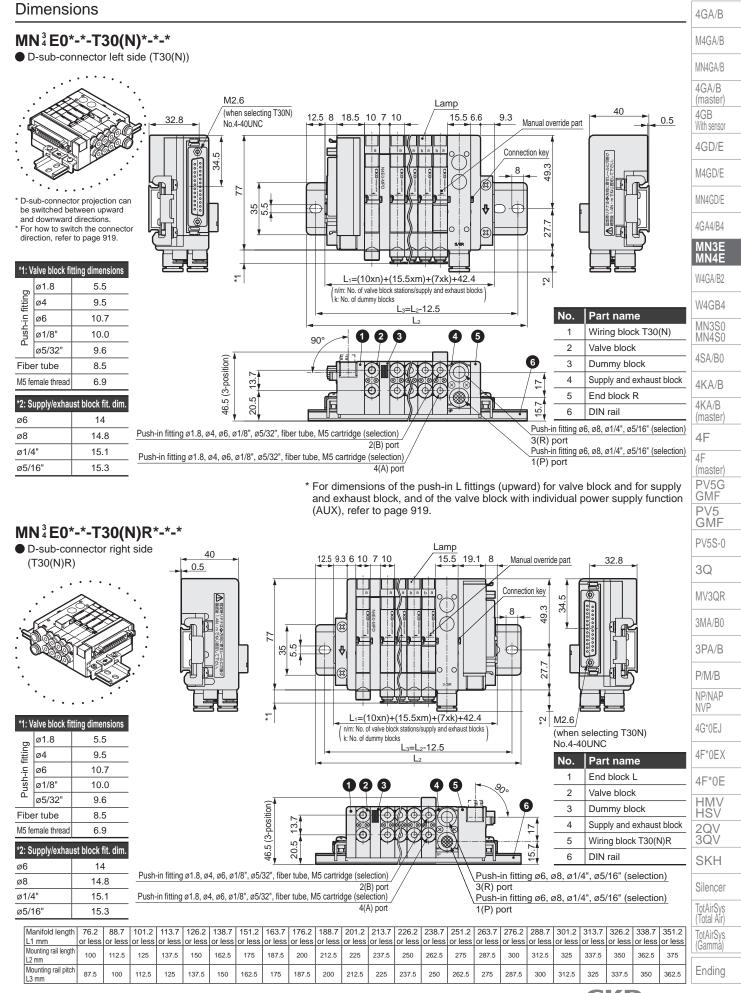
2QV 3QV

SKH

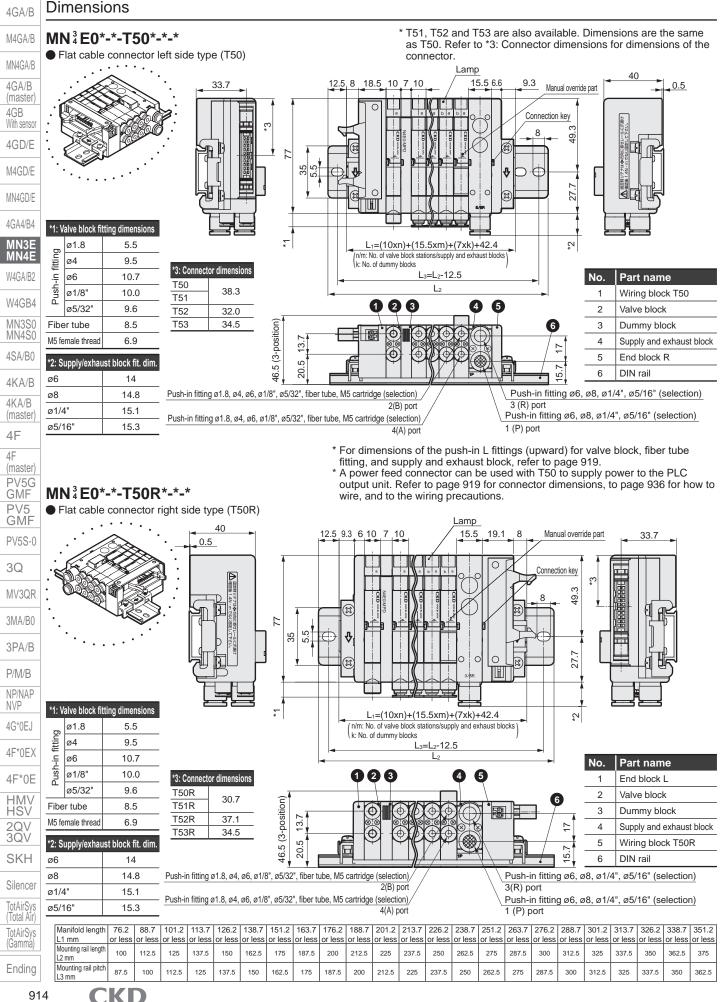
Silencer TotAirSys (Total Air)

MN ³₄**E0-T30**(**N**) _{Series}

Reduced wiring block manifold D-sub-connector

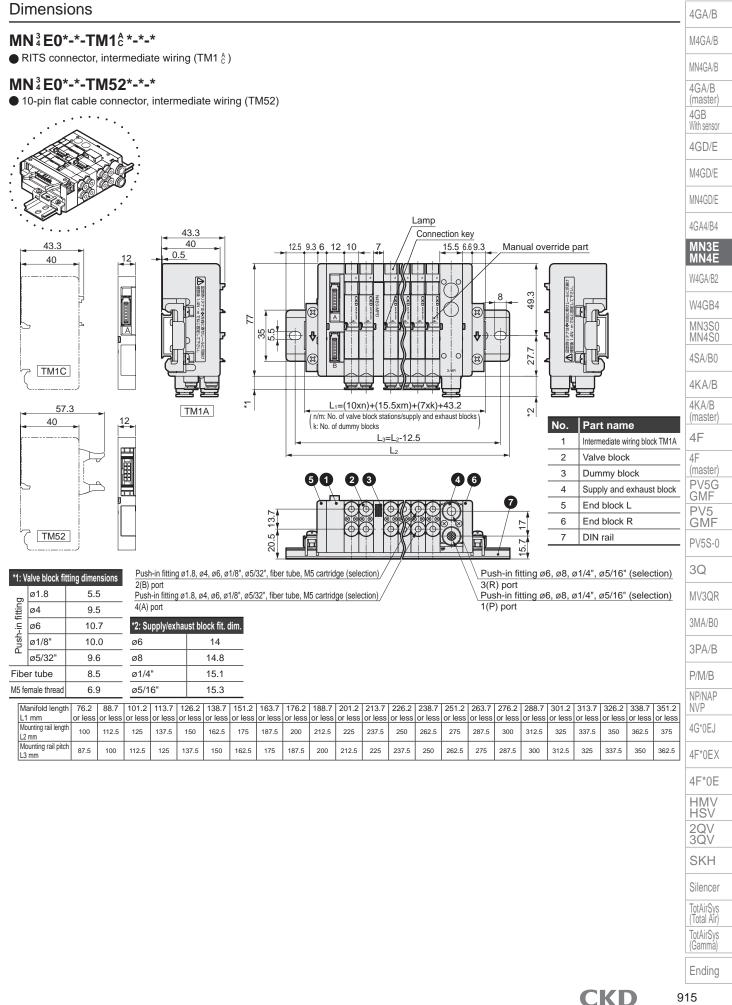


MN³₄E0-T50_{Series}

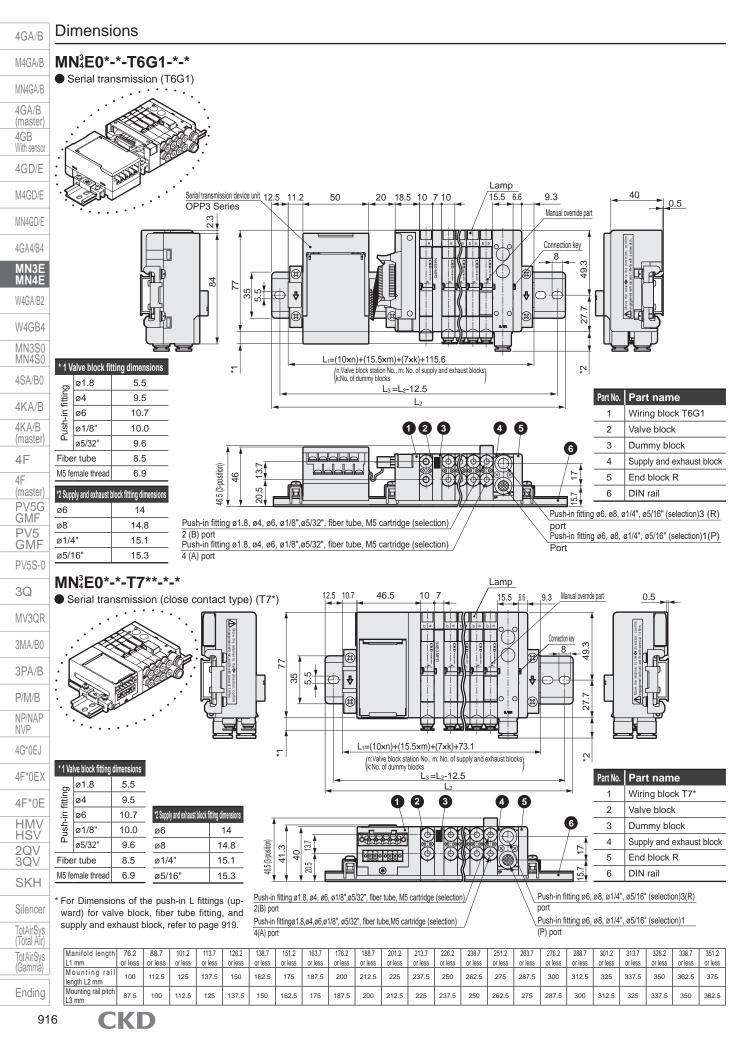


MN³₄**EO-TM** Series

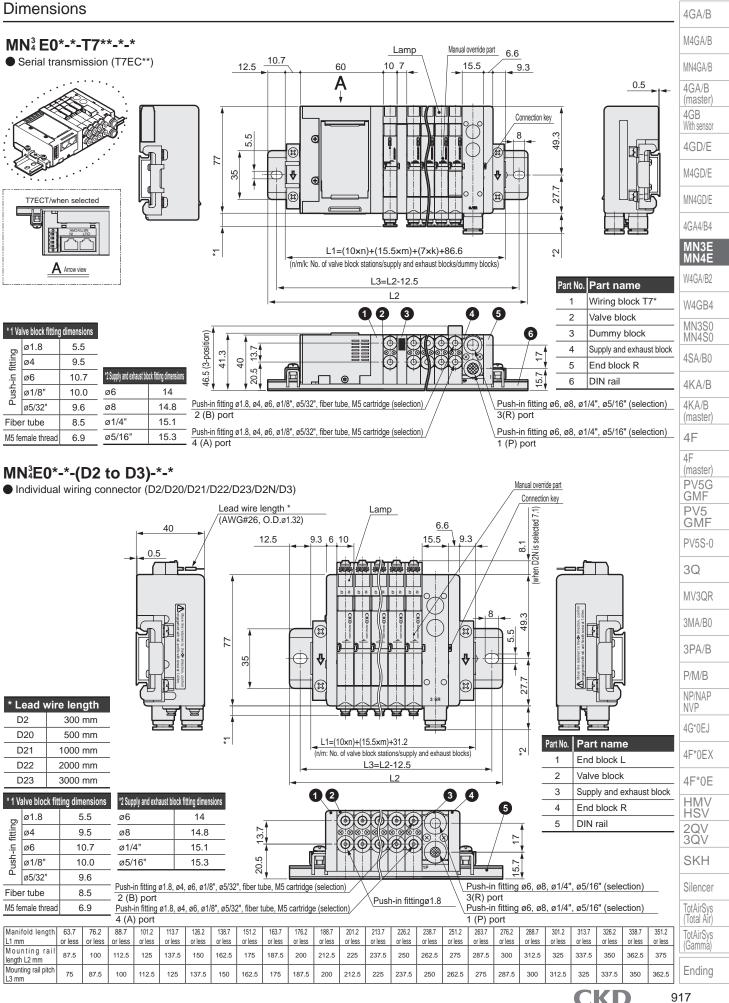
Reduced wiring block manifold; intermediate/right wiring blocks



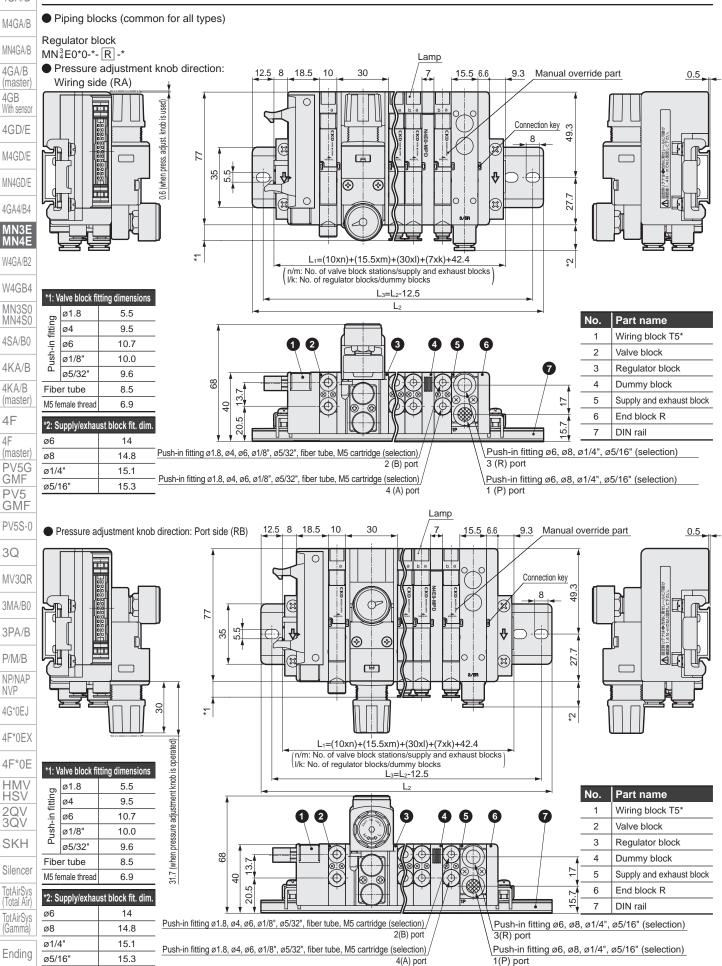
MN³₄E00-T6G1/T7* Series



Reduced wiring block manifold



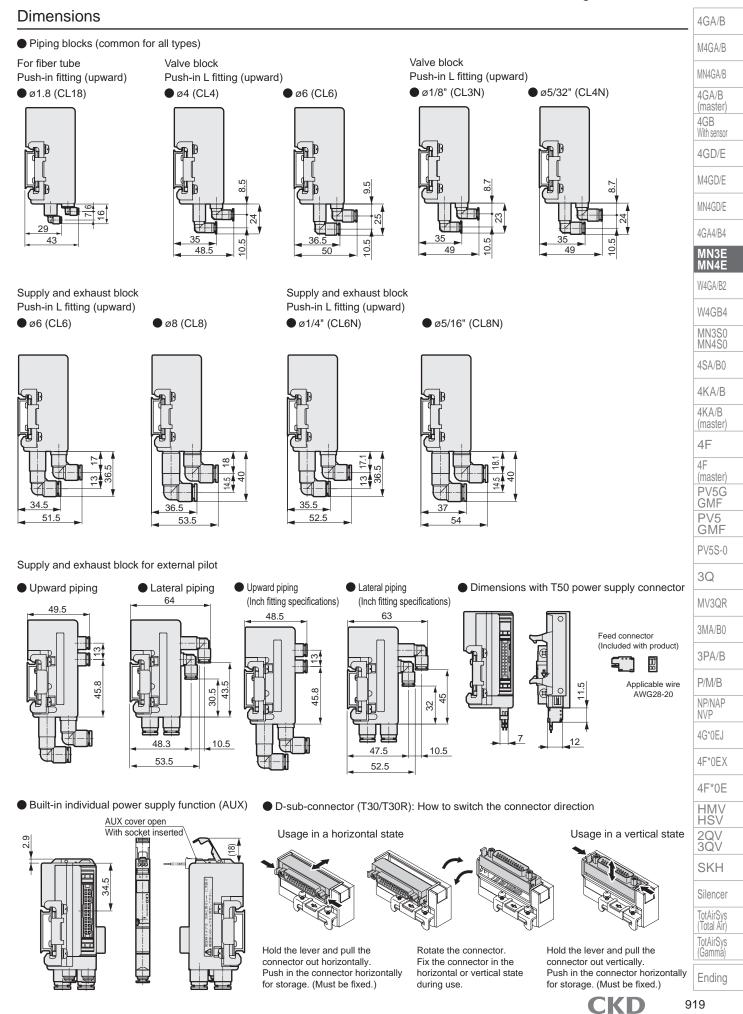
4GA/B Dimensions

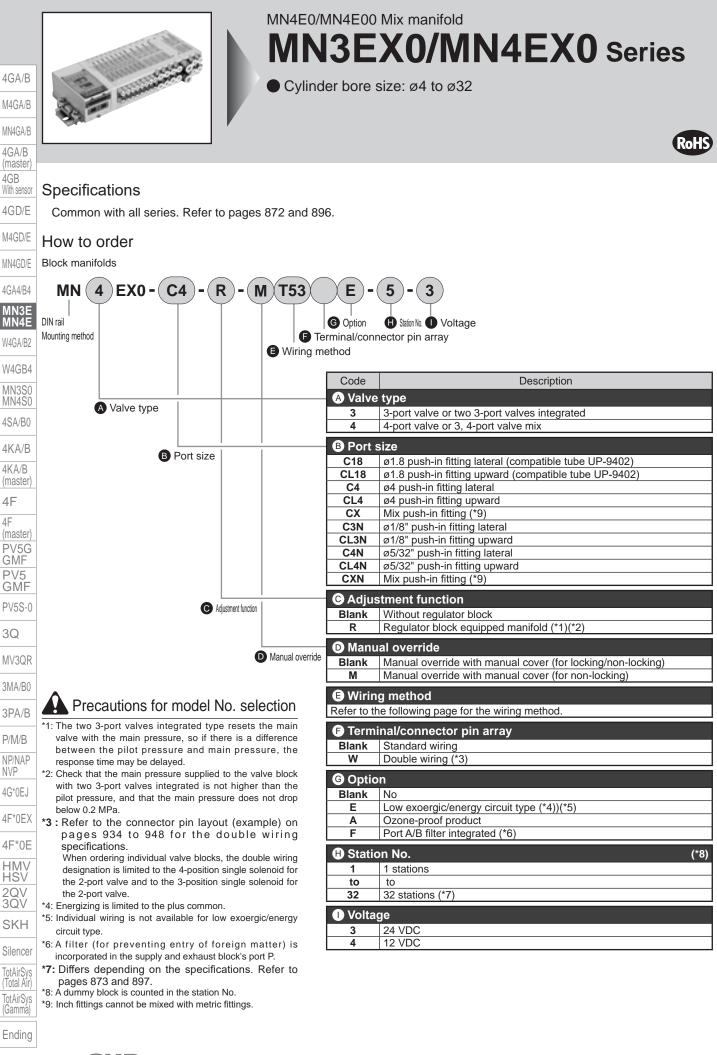


918

KD

Reduced wiring block manifold





CKD

MN3EX0/MN4EX0 series

Mix manifold

4GA/B M4GA/B MN4GA/B 4GA/B (master) 4GB With sensor 4GD/E M4GD/E MN4GD/E

4GA4/B4 MN3E MN4E

W4GA/B2 W4GB4 MN3S0 MN4S0 4SA/B0 4KA/B 4KA/B (master) 4F 4F (master) PV5G GMF

PV5

GMF

PV5S-0

3Q MV3QR

[Wiring method list]

Linua				
Code	Description			
🕒 Wiring	g 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.			
ТХ	Wiring block mix (*11) (*12) (*13)			
T6G1	CC-Link 16 points			
T7D1	Close contact DeviceNet 16 points Close contact DeviceNet 32 points			
T7D2				
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	* D-connector Lead wire length 300 mm			
D20	E D-connector Lead wire length 300 mm D-connector Lead wire length 500 mm D-connector Lead wire length 1000 mm D-connector Lead wire length 1000 mm			
D21	[™] D-connector Lead wire length 1000 mm			
D22	D-connector Lead wire length 2000 mm D-connector Lead wire length 3000 mm D-connector without lead wire without socket			
D23	D-connector Lead wire length 3000 mm			
D2N	ਰ 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.				

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

