Block manifold: Block configuration

4GA/B

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

W4GA/B2

W4GB4

MN3S0

MN4S0

4SA/B0

4KA/B

4KA/B

(master)

(master)

PV5G

GMF

GMF

PV5S-0

3Q

MV3QR

3MA/B0

3PA/B

P/M/B NP/NAP

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

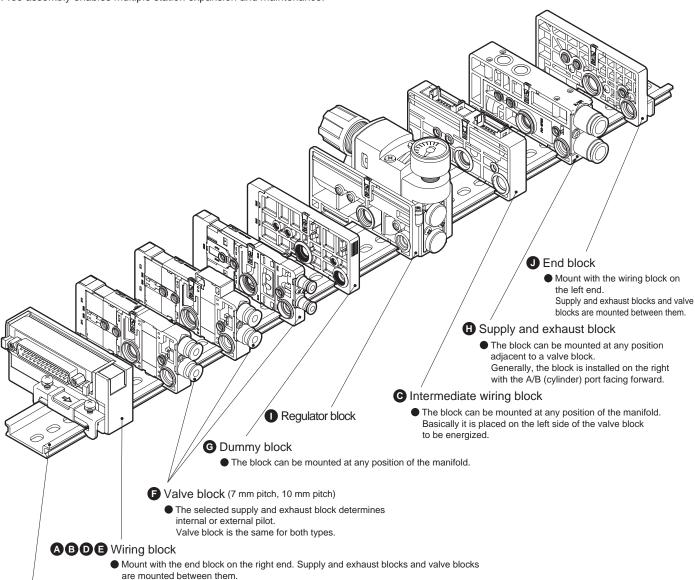
2QV 3QV

SKH

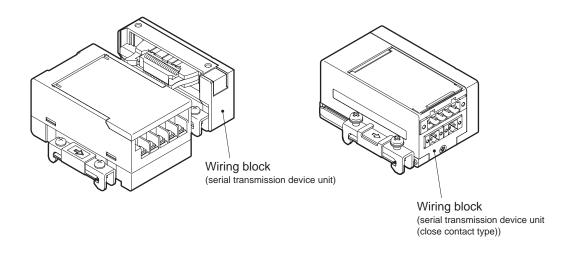
Silencer TotAirSys (Total Air)

4F

Free assembly enables multiple station expansion and maintenance.

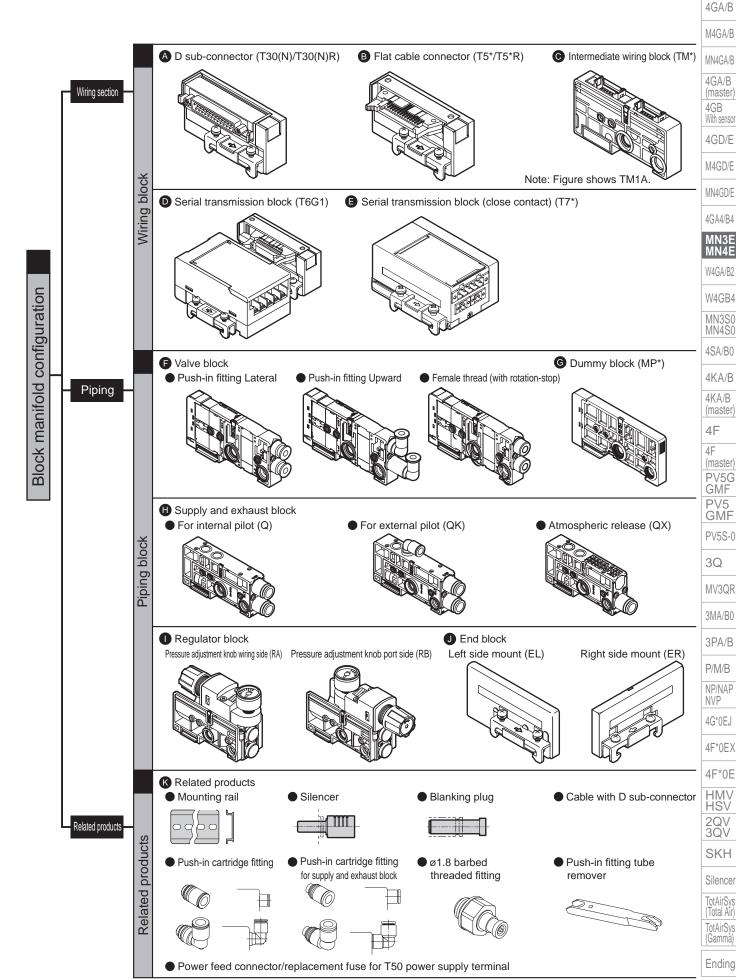


Mounting rail



TotAirSys (Gamma)

Reduced wiring block manifold; block



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 (master) PV5G

4F

GMF PV5 **GMF** PV5S-0

3Q MV3QR

3MA/B0

3PA/B

P/M/B

4G*0EJ

4F*0EX 4F*0E

HMV HSV 2QV 3QV

SKH

Silencer

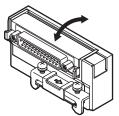
TotAirSys (Total Air) **TotAirSys** (Gamma)

Ending

Wiring section

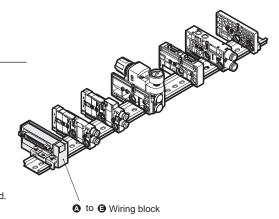
A D sub-connector (T30)

N4E0-T30



N4E0-T30R

* D sub-connector projection can be switched between upward and downward.



B Flat cable connector (T5*)

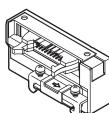
With power supply terminal

N4E0-T50



Without power supply terminal

N4E0-T51 N4E0-T52 N4E0-T53



N4E0-T51R N4E0-T52R

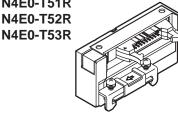
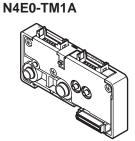


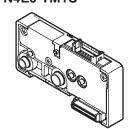
Figure shows T51. T52 and T53 have a different number of pins. (T51: 20 pins, T52: 10 pins, T53: 26 pins)

Intermediate wiring block

RITS connector 6P x 2

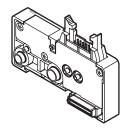


RITS connector 6P N4E0-TM1C



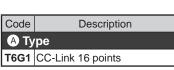
● 10-pin flat cable connector

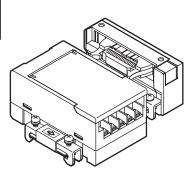
N4E0-TM52



Serial transmission block (T6G1)



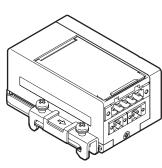




Serial transmission block (close contact) (T7*)



Code	Description	
A Ty	ре	
T7D1	DeviceNet 16 points	
T7D2	DeviceNet 32 points	
T7G1	CC-Link 16 points	
T7G2	CC-Link 32 points	
T7N1	S-LINK V 16 points	
T7N2	S-LINK V 32 points	
T7EC1	EtherCAT 16 points	
T7EC2	EtherCAT 32 points	
T7ECT1	EtherCAT 16 points	
T7ECT2	EtherCAT 32 points	



Reduced wiring block manifold; block



Code Description

A Wiring method

1G CC-Link 16 points

* The device unit is the same as that of 4G Series. Note that the model No. is "4G-*-*". 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

10,00

4KA/B

(master)

4F

4F (master) PV5G GMF

PV5 GMF

PV5S-0

F V 3 3 - 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)



2

C18

CL18

CL3 C4

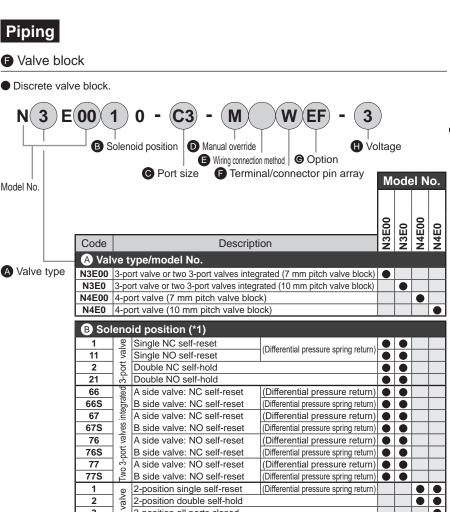
CL4

CL6

М3

M5

C Port size



2-position double self-hold

3-position all ports closed 3-position A/B/R connection

ø3 push-in fitting lateral

ø4 push-in fitting lateral

ø4 push-in fitting upward

ø6 push-in fitting upward

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

E Wiring connection method

F Terminal/connector pin array

Ozone-proof product (*7) Port A/B filter integrated

Refer to the following page for the wiring method.

D Manual override

Blank Standard wiring

24 VDC

12 VDC

G Option

Blank No.

Noltage

M3 female thread (with rotation-stop)

M5 female thread (with rotation-stop)

Blank | Non-locking/locking common (with manual cover)

Double wiring (for reduced wiring) (*2) (*3)

Low exoergic/energy saving circuit type (*4) (*5)

Built-in individual power supply function (AUX) (*5) (*6)

Manual override for non-locking (with manual cover)

ø6 push-in fitting lateral

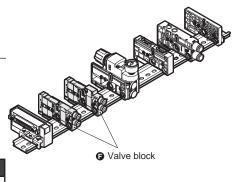
ø3 push-in fitting upward

3-position P/A/B connection

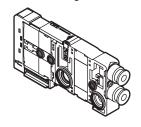
ø1.8 push-in fitting lateral (compatible tube UP-9402, EH-5802)

ø1.8 push-in fitting lateral (compatible tube UP-9402, EH-5802)

ø1.8 push-in fitting upward (compatible tube UP-9402, EH-5802)



Push-in fitting lateral



Push-in fitting upward

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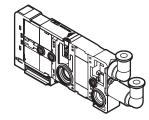
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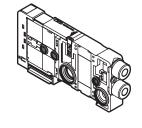
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Female thread (with anti-rotation)



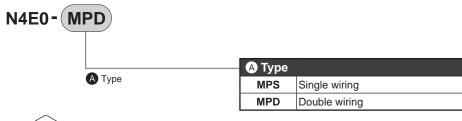
- *1 : For specifications of the self-reset, refer to the precautions on page 959.
- *2 : Double wiring is available only for the 2-position
- *3 : Double wiring is not available for single individual wiring valve blocks.
- *4: N3E00 and N4E00 individual wiring is not available for the low exoergic/reduced wiring
- Energizing is limited to the plus common. Also, "E" and "U" cannot be selected together.
- *6: "U" is not available for individual wiring.
- *7: Supported as standard for N3E00 and N4E00.

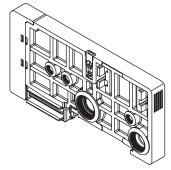
Reduced wiring block manifold; block

[Wiring method list]

				M	ode	el N	lo.
				N3E00	E0	N4E00	9
Code			Description	R3	N3E0	X	N4E0
Wirin	g me	ethod					
Blank	Valv	e block for redu	ced wiring	•	•	•	•
D2		D-connector	Lead wire length 300 mm	•	•	•	•
D20	wiring	D-connector	Lead wire length 500 mm	•	•	•	•
D21	Ĭ	D-connector	Lead wire length 1000 mm	•	•	•	•
D22	ual	D-connector	Lead wire length 2000 mm	•	•	•	•
D23	ndividual	D-connector	Lead wire length 3000 mm	•	•	•	•
D2N	Indi	D-connector with	nout lead wire without socket	•	•	•	•
D3		D-connector witho	ut lead wire with socket/terminal	•	•	•	•

G Dummy block





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)

4GA/B

M4GA/B

MN4GA/B

4GA/B (master) 4GB

With sensor

M4GD/E MN4GD/E

4GA4/B4 MN3E MN4E

W4GB4 MN3S0

W4GA/B2

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

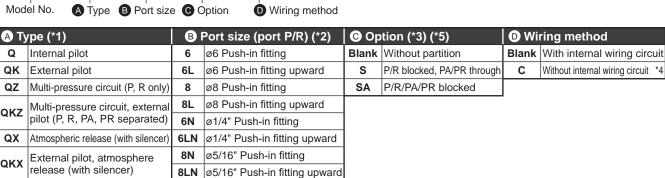
Piping

Supply and exhaust block

The block can be mounted at any position adjacent to a valve block.
 (Generally, the block is installed on the right with the A/B (cylinder) port facing forward.)

Supply the air for the two 3-port valves integrated with Q-6□ and 8□. (Cannot be used with the external pilot.)





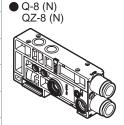
- *1: QZ cannot be used independently. Be sure to use with another type (Q/QK/QKZ).
- *2: In order to prevent foreign matter from entering, the P-port is equipped with a filter.
- *3: The manifold port faces forward to cut off the flow path between the supply and exhaust block and adjacent block on the right. (Refer to the circuit diagram on page 957.)

Option code

S: Cuts off the 1(P) and 3(R) flow paths.

SA: Cuts off the 1(P), 3(R), 12/14(PA) and 82/84(PR) flow paths.

- *4: When using the wiring block with a [left + right] or [intermediate + right] combination, arrange the supply and exhaust block "without internal wiring circuit" between the left control station and right control station.
- *5: When the end block N4EO-ER is selected, if installing a supply/exhaust block adjacent to the left, Options: S, SA cannot be selected.



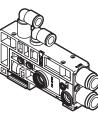




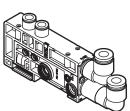


Supply and exhaust block

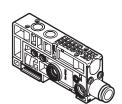
QKZ-8 (N)



QKZ-8L (N)



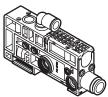
QX-8 (N)



QX-8L (N)



● QKX-8 (N)



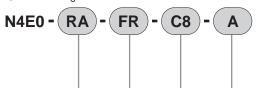


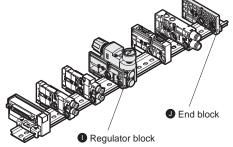
Reduced wiring block manifold; block

Piping

Regulator block

Discrete regulator block





A Pressure adjustment knob direction A Pressure adjustment knob direction RA RB Pressure Pressure

B Air supply/pressure adjustment direction

B Air supply/pressure adjustment direction



Note on model No. selection

- *1: Regulator block equipped manifold needs one or more supply and exhaust blocks for pilot air.
- *2: Consult with CKD when using the regulator block independently for external pressure control other than the manifold.
- *3: Elbow fitting (CL6/CL8/CL6N/CL8N) cannot be selected when the pressure adjustment knob direction is RB.

Discrete regulator model No.



LR RL FL FR

© Fitting bore size

		Plug (for air supply/pressure adjustment direction LR and RL)		
ı	C6	ø6 push-in fitting (for air supply and pressure adjustment direction FR, FL)		
ı	C8	ø8 push-in fitting (for air supply and pressure adjustment direction FR, FL)		

CL6 | ø6 push-in fitting, upward (for pressure adjustment knob direction RA and air supply and pressure adjustment direction FR, FL CL8 Ø8 push-in fitting, upward (for pressure adjustment knob direction RA and air supply and pressure adjustment direction FR, FL **C6N** ø1/4" push-in fitting (for air supply and pressure adjustment direction FR, FL)

C8N | ø5/16" push-in fitting (for air supply and pressure adjustment direction FR, FL) CL6N | ø1/4" push-in fitting, upward (for pressure adjustment knob direction RA and air supply and pressure adjustment direction FR, FL)

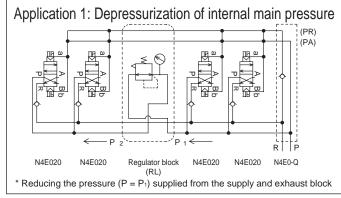
CL8N | Ø5/16" push-in fitting, upward (for pressure adjustment knob direction RA and air supply and pressure adjustment direction FR, FL)

Option

Blank None

Ozone-proof product

Applications (Consult with CKD for other applications.)

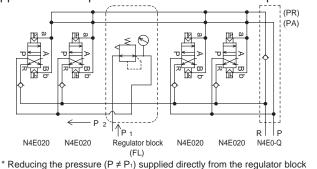


C Fitting bore size

Option

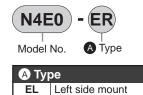
(*3)

Application 2: Depressurization of external main pressure

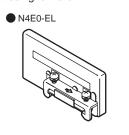


End block

Mount the block on the left or right side with the piping port facing forward.



Right side mount





CKD

4GA/B M4GA/B

MN4GA/B

4GA/B (master 4GB With sensor

4GD/E M4GD/E

MN4GD/E

4GA4/B4

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

NVP 4G*0EJ

4F*0EX

4F*0E

HMV HSV

2QV 3QV

SKH

Silencer

TotAirSys (Total Air TotAirSys (Gamma)

Ending

929

4GA/B

M4GA/B

MN4GA/B 4GA/B (master)

(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 (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

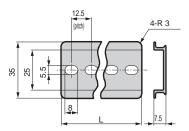
Silencer

TotAirSys (Total Air) TotAirSys (Gamma)

Ending

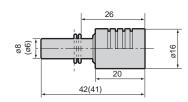
Related products

Mounting railN4G-BAA[Length]



Silencer (accessories)

SLW-H8 SLW-H6

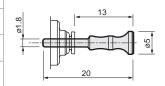


* Values in () are for H6 Effective cross-sectional area 9 mm²

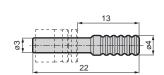
*This product cannot be used with inch fitting specifications.

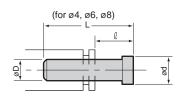
Blanking plug (accessory)

PG-P2-B (for Ø1.8)



N4E00-JOINT-PP3MW (for Ø3)





Model No.	D	L	Q	d
GWP 4-B	ø4	27	16	6
GWP 6-B	ø6	29	17	8
GWP 8-B	ø8	33	17.5	10

ø1.8 barbed fitting (10 pcs./set)

N4E0 - JOINT - PTN2-M5



Code	Dimensions		
PTN2-M3	Barbed fitting M3 screw-in		
PTN2-M5	Barbed fitting M5 screw-in		
PTN2-6	Barbed fitting R1/8		

* Contact CKD separately regarding fiber tube.

Push-in fitting tube remover

N4E0-EOT18-4 (for Ø1.8, Ø3, Ø4) **N4S0-EOT4-6** (for Ø3, Ø4, Ø6)



Reduced wiring block manifold; related products

Related products

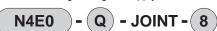
Push-in cartridge fitting



Dedicated for valve block.

Code	Dimensions
C18	ø1.8 push-in cartridge fitting
C3	Push-in cartridge fitting for ø3 tube
C4	Push-in cartridge fitting for ø4 tube
CL18	ø1.8 short radial push-in cartridge fitting
CL3	Short radial push-in cartridge fitting for ø3 tube
CL4	Short radial push-in cartridge fitting for ø4 tube
CLL18	ø1.8 long radial push-in cartridge fitting
CLL3	Long radial push-in cartridge fitting for ø3 tube
CLL4	Long radial push-in cartridge fitting for ø4 tube
CPG	Plug cartridge
СР	Fitting fixing plate (with machine screw for plate fixing)
СМЗ	M3 Cartridge fitting
СМВ	M3 Plug cartridge (Fixing requires fitting anti-rotation plate for M3: CMP)
CMP	Fitting rotation-stop plate for M3 (with machine screw for plate fixing)
C3N	Push-in cartridge fitting for ø1/8" tube
C4N	Push-in cartridge fitting for ø5/32" tube
CL3N	Short radial push-in cartridge fitting for ø1/8" tube
CL4N	Short radial push-in cartridge fitting for ø5/32" tube
CLL3N	Long radial push-in cartridge fitting for ø1/8" tube
CLL4N	Long radial push-in cartridge fitting for ø5/32" tube

Push-in cartridge fitting for supply and exhaust block



For pilot pressure air supply (for PA), use the products for valve block shown above.

Code	D	imensions
6	Push-in cartridge fitting for ø6 tube	
8	Push-in cartridge fitting for ø8 tube	
6L	Short radial push-in cartridge fitting for ø6 tube	
8L	Short radial push-in cartridge fitting for ø8 tube	
6LL	Long radial push-in cartridge fitting for ø6 tube	
8LL	Long radial push-in cartridge fitting for ø8 tube	
6N	Push-in cartridge fitting for ø1/4" tube	
8N	Push-in cartridge fitting for ø5/16" tube	
6LN	Short radial push-in cartridge fitting for ø1/4" tube	
8LN	Short radial push-in cartridge fitting for ø5/16" tube	
6LLN	Long radial push-in cartridge fitting for ø1/4" tube	
8LLN	Long radial push-in cartridge fitting for ø5/16" tube	
Р	Fitting fixing plate (with machine screw for plate fixing)	5:5



Dedicated for valve block and supply/exhaust block port PA. Cannot be used for ports P and R of supply and exhaust block.

Odin	iot be asea for ports i and it or sup	pry and childust b	nook.	
Code	Dimer	nsions		4GA/B (master)
CF	ø1.8 barbed cartridge fitting			4GB
C18	ø1.8 push-in cartridge fitting)	With sensor
C4	Push-in cartridge fitting for ø4 tube			4GD/E
C6	Push-in cartridge fitting for ø6 tube			M4GD/E
CL18	ø1.8 short radial push-in cartridge fitting		P	MN4GD/E
CL4	Short radial push-in cartridge fitting for ø4 tube			4GA4/B4
CL6	Short radial push-in cartridge fitting for ø6 tube			MN3E MN4E
CLL18	ø1.8 long radial push-in cartridge fitting			W4GA/B2
CLL4	Long radial push-in cartridge fitting for ø4 tube			W4GB4
CLL6	Long radial push-in cartridge fitting for ø6 tube		+++	MN3S0
CPG	Plug cartridge			MN4S0
СР	Fitting fixing plate (with machine screw for plate fixing)		5:5	4SA/B0
СМ5	M5 cartridge fitting (Fixing requires fitting anti-rotation p	late for M5: CMP)	©	4KA/B
СМВ	M5 plug cartridge (Fixing requires fitting anti-rotation p	late for M5: CMP)		4KA/B (master)
СМР	Fitting rotation-stop plate for M5 (with machine screw for plate fixing)		5:5	4F
C3N	Push-in cartridge fitting for ø1/8" tub	e C) ————————————————————————————————————	4F
C4N	Push-in cartridge fitting for ø5/32" tu	be C		PV5G GMF
CL3N	Short radial push-in cartridge fitting for ø1/8" tube			PV5 GMF
CL4N	Short radial push-in cartridge fitting for ø5/32" tube			PV5S-0
CLL3N	Long radial push-in cartridge fitting for ø1/8" tube			3Q
CLL4N	Long radial push-in cartridge fitting for ø5/32" tube			MV3QR
				3MA/R0

4GA/B

M4GA/B

MN4GA/B

W4GA/B2 W4GB4

MN3S0 MN4S0 4SA/B0

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)

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 (master)

PV5G GMF PV5 GMF

PV5S-0 3Q

MV3QR 3MA/B0

3PA/B

P/M/B NP/NAP

4G*0EJ 4F*0EX

HMV HSV

4F*0E

SKH

TotAirSys (Total Air) TotAirSys (Gamma)

Ending

Related products

Socket assembly for power supply (for individual wiring, AUX)



A Type		
S	2 wires (for single solenoid)	
D	3 wires (for double solenoid)	
B Lead wire length		
300	300 mm	
500	500 mm	
1000	1000 mm	
2000	2000 mm	
3000	3000 mm	

*1: The model No. without lead wire is 3M0-SOCKET-SET. (3 contacts attached, applicable wire diameter: AWG#26 to 28)

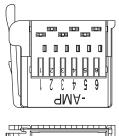


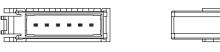
А Туре			
S	2 wires (for single solenoid)		
D	3 wires (for double solenoid)		
B Lead	B Lead wire length		
300	300 mm		
500	500 mm		
1000	1000 mm		
2000	2000 mm		
3000	3000 mm		

*1: The model No. without lead wire is N4E00-SOCKET-SET. (3 contacts attached, applicable wire diameter: AWG#26 to 28)

Connector for wiring block TM1 (RITS connector 6P)

N4E0-TM-CONNECTOR Tyco Electronics Japan G.K. RITS connector 6P (part No.: 1473562-6)





· Compatible wire (Tin-plated wire recommended)

Sheath finished outer ø	Ref. wire cross-sectional area	No. of strands/diameter	
mm	mm²	Qty/mm	
ø1.0 to 1.15	ø0.2 to 0.3	to 60/0.08	

For the detailed specifications of applicable wires, confirm with * below.

* Tyco Electronics Japan G.K.

Product information center

TEL +81-44-844-8052

URL http://www.te.com/jpn-ja/about-te/our-company/te-japan.html

· Dedicated crimping tool 1729940-1

Power feed connector for power supply terminal for T50

N4E0-T50-CONNECTOR

Compatible wires AWG28-20 / 0.08 to 0.5 mm² (Commercially available WAGO connector plug 733-102)

Replacement fuse for T50

4T9-LM16

LM16, Daito Communication Apparatus Co., Ltd.

Communication connector for T7D

MSTB2.5/5 - STF - 5.08AUM

Phoenix Contact (Part No.: 5880008)

Communication connector for T7G and T7N

BLZP5.08HC/05/180F SN OR BX

Weidmüller Corp. (Part No.: 194412)

Power supply connector for T7D, T7G and T7N

BL3.5/2F Weidmüller Corp. (Part No.: 160664)