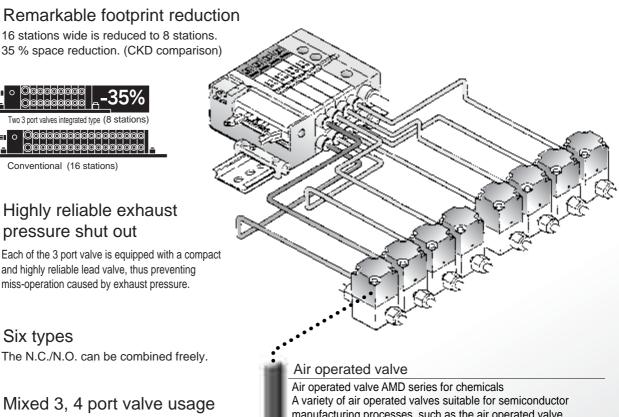
Newly introducing the two 3 port valves integrated type to complete the series.

The valve block with two 3 port valves integrated type has been newly added to the popular PC compatible reduced wiring 3, 4 port valve block manifold, expanding the variety of available series and variations.

MN3S0 Series

Control two air operated valves with one station with the higher integrated and space saving series.

A valve block compactly integrating two 3 port valves has been newly added to the series. A high integration, space saving 3 port valve block manifold which can control two air operated valves with one station, or 16 with eight stations, can be configured.





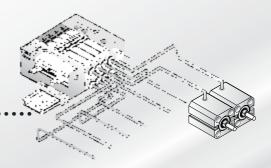
Ea

Easy piping work The N.C./N.O. class is indicated on the piping port, thus facilitating piping work.

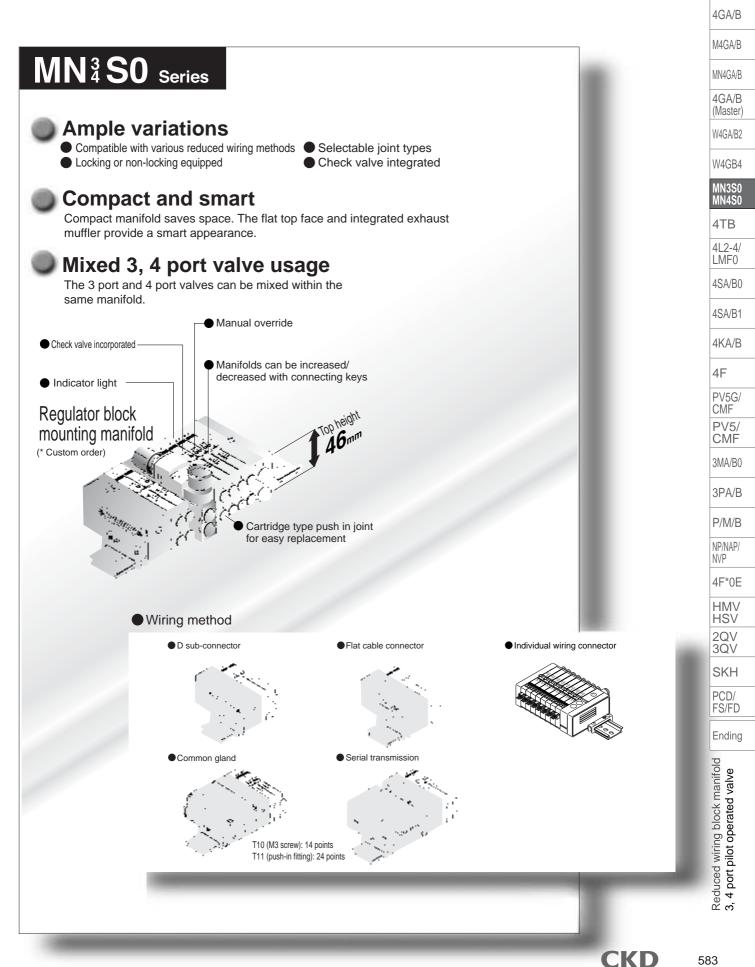
Control up to ø20 cylinders ••••

Max. ø20 single-acting cylinder can be controlled.

A variety of air operated valves suitable for semiconductor manufacturing processes, such as the air operated valve AGD series for process gas, is available. Contact with CKD. (Product illustration example)



MN3E0



583

MN3E0 MN4E0

Series variation

MN3S0/MN4S0 Series

4GA/B										
M4GA/B										
MN4GA/B							Valve per	formance		
4GA/B (Master)									Voltage (V)	
W4GA/B2						Position	Flow characteristics	Applicable cylinder bore size		
W4GB4		Appearance		Mod	lel no.	No. of solenoid JIS symbol	C			
MN3S0 MN4S0							(dm ³ / (s·bar)) Note 1	D016 Size		
4TB										
4L2-4/ LMF0					I					
4SA/B0		MN3S0/MN4S0				3 port valve ●2-position				
4SA/B1			3 port	MN3S0						
4KA/B					DIN rail	e' ∳ _R : ●2-position normally open				
4F					Installation					
PV5G/ CMF	alve		4 port	MN4S0		4 port valve ●2-position single solenoid				
PV5/ CMF	port valve						0.57 to	ø 20 to	24 DC 12 DC	
3MA/B0	4 pc	MT3S0/MT4S0	3 port MT3S0 4 port MT4S0	ort MT3S0	Direct mount (limited to 8 stations)	● 2-position double solenoid	0.80	ø 40		
3PA/B	З,					● 3-position all ports closed				
P/M/B										
NP/NAP/ NVP				ort MT4S0						
4F*0E						P'∳R ■ 3-position P/A/B connection				
HMV HSV										
2QV 3QV		MN3S0				Two 3 port valves integrated type • N.C./N.C. type (N3S0660)				
SKH		\wedge			DIN rail	PA				
PCD/ FS/FD	type			MN3S0	Installation					
Ending	rated					● N.C./N.O. type (N3S0670) B side: N.O. A side: N.C.		ø20		
	Two 3 port valves integrated type		3 port				0.50	or less	24 DC 12 DC	
		m I wo s port valves integrated in a		MT3S0	Direct mount (limited to 8 stations)	PAPE.P				
						● N.O./N.O. type (N3S0770) B side: N.O. PR				
	Note 1	: Effective sectional area S and sonic cor	ductance C	are converted a	s S ≒ 5.0 x C.					

Series variation

															MNOFO
															MN3E0 MN4E0
															4GA/B
'Note 1: Effective sectional area S and sonic conductance C are converted as S ition A/B port size Wiring method								ls S ≒ 5.0 x C.	M4GA/B						
	tion	ortuglue	e integrat	tod ture			port s	Female		vviri	ng me	ernod			MN4GA/B
	1wo 3 p	on valve	s integrat	.ea type		Pusn-	in joint	thread							4GA/B (Master)
		0	0										ector		W4GA/B2
	side NC	side NO	side NC	side NO								ion	conn	Page	W4GB4
	B si	B sic	B si	B si					Common gland	sub-connector		smiss	viring		MN3S0 MN4S0
	A side NC	side NC	A side NO	A side NO					uou (o-con	Flat cable	Serial transmission Individual wiring connector		4TB	
	A sid	A sid	A sid	A sid	Mix	ø4	ø6	M5	Com	D suł	Flat o	Seria	Indivi		4L2-4/ LMF0
															4SA/B0
						•	•		•	•	•		•	590	4SA/B1
															4KA/B
															4F
						•	•	•	•		•	•		590	PV5G/ CMF
															PV5/
															CMF 3MA/B0
														590	
										•				330	3PA/B
															P/M/B NP/NAP/
														590	NVP
										•				000	4F*0E HMV
															HSV
															2QV 3QV
														590	SKH
		-							-	-		-	-	000	PCD/ FS/FD
															Ending
_															ve
															Reduced wiring block manifold 3, 4 port pilot operated valve
															ng bloc operat
		•								•				590	d wirin : pilot (
															educe(4 port
															, Э
Î	Rofo	r to the	e follow	ving na	ne for	details	of wiri	na met	hod ar	nd othe	er ontio	ns			

Solenoid position

2-position single solenoid NC

•

3-position P/A/B connection

2-position single solenoid NO

3, 4 port valve

3-position A/B/R connection

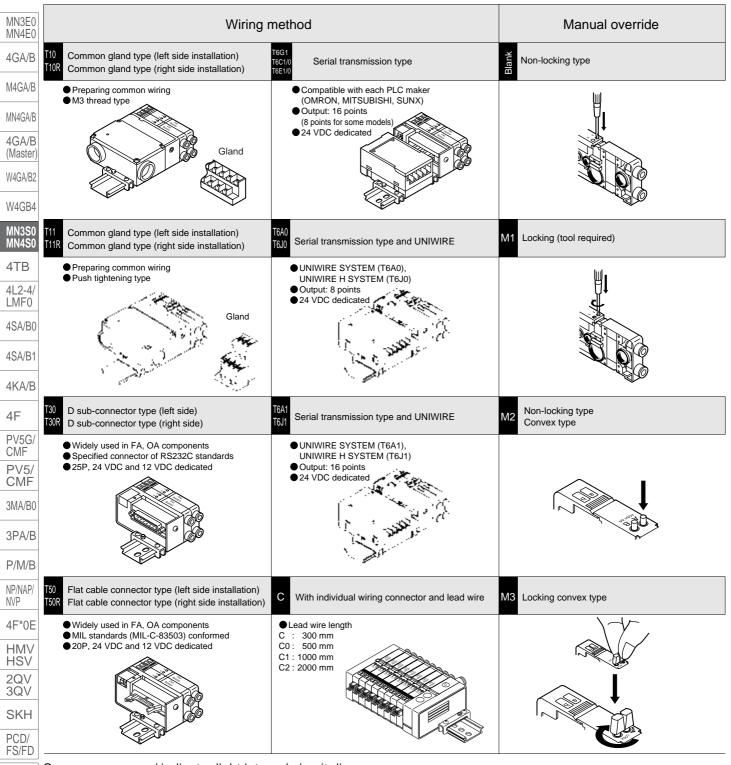
2-position double solenoid

2-position single solenoid

3-position all ports closed

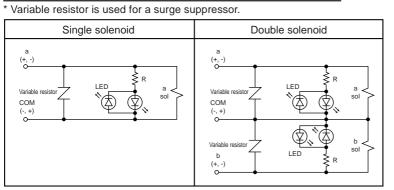
Refer to the following page for details of wiring method and other options.





Ending

Surge suppressor / indicator light internal circuit diagram





Pneumatic components

Safety precautions

Always read this section before starting use. Refer to Intro 63 for valve general precautions.

PLC compatible reducer wiring 3, 4 port valve block manifold MN3S0/MN4S0 Series

Design & Selection

ACAUTION

Working air quality

- Use clean compressed air.
 - (5 μ or less by using dryer, oil mist separator or air filter, etc.)
 - This is to prevent accidents from occurring due to drainage, oil oxide, tar, foreign matter or rust in compressed air.
- Flush pipes before piping.
- This block manifold is used with oilless specifications as a standard.

If lubrication is required, use Turbine Oil Class 1 ISOVG32 or equivalent. The solenoid valve could fail if a different type of oil is used, if lubrication is excessive, or if lubricant is not replenished after lubricating once.

- Use of ultra dry air could reduce life due to scattering of lubricant.
- The response time given in product specifications is the value when using with oilless specifications, at 0.5 MPa in energized state. An operation delay could occur if lubrication is excessive.

Installation & Adjustment

1. Installation

ACAUTION

- Avoid using this product where vibration is 50 m/s² and impact is 300 m/s² or more. Failure to observe this caused lead to malfunctions.
- Do not restrict air supply piping. Operation could be delayed by a temporary drop in the air supply pressure when manifolds operate simultaneously.
- Do not use the cylinder port released to air.
 Operation faults could occur due to a drop in air supply pressure, so use the external pilot operated type.
 (The lower limit pressure of the internal pilot operated type is 0.2 MPa.)
- Do not restrict the exhaust path. The cylinder's response could be delayed. Adjust the speed between the cylinder and valve.
- Do not seal the pilot exhaust path. Operation faults could occur if the pilot exhaust path is sealed, so provide an exhaust path.
- When braking the cylinder with 3-position all ports closed (N4S030), check that there are no leaks from piping connection and no internal leaks in the cylinder.

(Use a cylinder with brake when long-term holding and a stopping accuracy are required.))

- Avoid using this product in the following environment.
 Where the ambient temperature exceeds 5 to 50 °C.
- Where product could be subject to water drops or cutting oil.
- Where there are high levels of dust.
- Environment containing salt air or corrosive gas. If the product must be used in this type of environment, provide protection with cover, etc.

If used where subject to direct sunlight, the product could be discolored slightly by ultraviolet rays. However, this will not affect product performance.

- Avoid installing this product in a place with poor ventilation and heat radiation. The surface temperature of the manifold will rise when continuously energized, but this is not problem. Check that the ambient temperature does not exceed 50 °C.
- When using the two 3 port valves integrated type, check that the main pressure in the manifold does not drop below the minimum working pressure due to the various pressure control method, and avoid using with the valve block released to air.

2. Applicable piping tube

ACAUTION

- Observe the following precautions when using nylon tubes or urethane tubes for piping material.
 - Use a flame resistance tube or steel pipe when using in an environment where spatter could scatter.
 - Use a hydraulic hose for piping to be used for both hydraulics and pneumatics.
 When using the standard push-in joint on the spiral tube, fix the base of the tube with a hose band. The tube could

rotate and reduce holding performance. Use a tightened joint when using in a high ambient temperature. The push-in joint can not be used.

Precautions

MN3E0 MN4E0

4GA/B

M4GA/B

MN4GA/B

4GA/B

(Master

W4GA/B2

CMF

PV5

CMF

HMV

HSV

2QV

3QV

SKH

PCD/

FS/FD

Ending

ACAUTION

Connecting piping

Applicable tube

- When using a solenoid valve with push-in joint, use the CKD designated tube.
 - Soft nylon (F-1500 Series)
 - Urethane (U-9500 Series)

When using a commercially available tube, check dimensions accuracy, thickness, and hardness. Use a urethane tube with a hardness of 93° over (rubber hardness meter). If a tube that does not satisfy the diameter accuracy or hardness is used, the chucking force may drop, the tube may dislocate, or may be difficult to insert.

Tube dimension W4GB4

111000		Inner diameter mm				
MN3S0 MN4S0	Outer diameter mm	Nylon	Urethane			
4TB	ø4	ø2.5	ø2			
	ø6	ø4	ø4			
4L2-4/ LMF0	ø8	ø5.7	ø5			
4SA/B0	ø10	ø7.2	ø6.5			
43A/DU	ø12	ø8.9	ø8			
4SA/B1	Tolerance of	outer diameter				
	Soft/h	nard nylon	±0.1 mm			
4KA/B	Ureth	ane ø4, ø6	+0.1 mm			
			-0.15 mm			
4F	ø8, ø	10, ø12,	+0.1 mm			
PV5G/			-0.2 mm			
F V 3G/	Tube bendin	a radius				

Tube bending radius

The tube's bending radius must be larger than the min. bending radius. (Failure to observe this can lead to dislocation or leaks.)

3MA/B0	Bore size	Minimum bending radius mm				
JIVIA/DU	DOIE SIZE	Nylon	Urethane			
3PA/B	ø4	10	10			
D/14/D	ø6	20	20			
P/M/B	ø8	30	30			
NP/NAP/ NVP	ø10	40	40			
	ø12	55	50			
4F*0E						

Cutting the tube

Always use a tube cutter (AZ1200), and cut at a right angle in the axial direction. Air could leak if a tube cut at a slant is inserted.

State of tube connection

Provide a straight section as long as the O.D. of the tube being used from the end of the joint, and avoid piping with a sudden bending at the joint insertion port. Check that the tube's tensile strength in the lateral direction does not exceed 40 N.

Applicable blanking plug

When using the solenoid valve with push-in joint, use the CKD designated blanking plug. Blanking plug GZP*-B Series

3. Power supply circuit and connection

CAUTION

- Check that leakage current from the programmable controller is less than 1 mA at the circuit. The valve could malfunction if the leakage current is high.
- The instantaneous energizing operation of the double solenoid type must be at least 0.1 second over.
- Refer to the instruction manual when replacing or extending blocks. Pay attention to the order of connecting cable connector.
- Refer to precautions for wiring for details on other wire connections.
- If the valve block may be expanded in the future, indicate the spare cable in manifold specifications. (Note that up to 4 cables can be connected to 1 air supply/exhaust

4. Manual override

CAUTION

The MN4S0 is manually operated with an indirect drive method using pilot pressure.

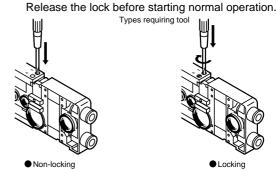
The valve will not operate unless pilot pressure is supplied. (1) Non-locking type

· Press the button on the top of the valve with a thin tool (ø2 or less), until it is completely pressed. Pressing A will be the same as when the a coil operates, and pressing B will be the same as when the b coil operates.

· When the single or 3-position type is released, the main valve will also return. With the double type, the button will return, but the main valve will be held at that position.

(2) Locking type

· In addition to non-locking type functions, when the button is pressed and turned 90 degrees in the direction of the arrow (using a 2 mm precision flat-tip screwdriver), the state can be held.



When using the custom order non-locking type or locking type that does not require a tool, provide a cover when not in use to ensure safety.

Precautions

During Use & Maintenance

1. Surge suppressor

A CAUTION

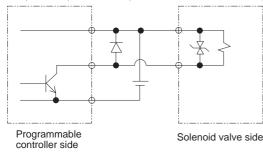
The surge suppressor enclosed with the solenoid valve is to protect the output contact for that solenoid valve's drive. There is no significant protection for the other peripheral devices, and devices could be damaged or malfunction by the surge. Surge generated by other devices could be absorbed and cause damage such as burning. Care must be taken for points below.

(1) The surge suppressor limits solenoid valve surge voltage, which can reach several hundred volts, to a lower voltage level withstandable by the output contact. Depending on the output circuit used, this may be insufficient and could result in damage or malfunction. Check whether the surge suppressor can be used by the surge voltage limit of the solenoid valve in use, the output device's withstand pressure and circuit structure, and by the degree of return delay time. If necessary, provide other surge measures. Solenoid valves with surge suppressors suppress the reverse voltage surge generated during OFF operation to the levels below.

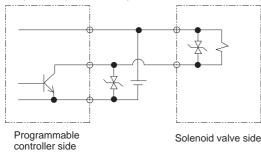
Rated voltage	Reverse voltage value when power turned OFF
12 VDC	27 V
24 VDC	47 V

(2) When using the NPN output unit, a surge voltage equivalent to the voltage above plus the power voltage surge could be applied. Provide contact protection circuit.

(Example of output transistor protective circuit installation 1)



(Example of output transistor protective circuit installation 2)



(3) If another device or solenoid valve is connected in parallel to the solenoid valve, reverse voltage surge generated during the solenoid valve is off is applied to these devices. Even when using the solenoid valve with surge suppressor for 24 VDC, the surge voltage may reach minus several ten V depending on the model. This inverse polarity voltage could damage or cause the other devices connected in parallel to malfunction. Avoid parallel connection of devices suspected of reversing polarity voltages, e.g., LED indicators.

When driving several solenoid valves in parallel, the surge from other solenoid valves could enter the surge suppressor of one solenoid valve with a surge suppressor. Depending on the current value, that surge suppressor could burn.

When driving several solenoid valves with surge suppressors in parallel, surge current could concentrate at the surge suppressor with the lowest limit voltage and cause similar burning. Even if the solenoid valve type is the same, the surge suppressor's limit voltage can be inconsistent, and in the worst case, could result in burning. Avoid driving several solenoid valves in parallel.

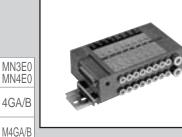
(4) The surge suppressor incorporated in the solenoid valve often short-circuits if damaged by excessive voltage or current the other solenoid valves. If the surge suppressor fails, if a large current flows when output is on, the output circuit or solenoid valve could be damaged or ignite. Do not keep power on in a faulty state. Provide an overcurrent protection circuit on the power or drive circuit or use a power supply with overcurrent protection so that a large current does not flow continuously.

2. Assembling & Disassembling

- Turn power OFF and depressurize before starting following work:
 - Refer to technical data (page 615) for details on expansion, disassembly, and assembly required when changing the regulator body or regulator block specifications or when replacing a spent regulator. Consult with CKD for details.
- After assembly, confirm that the joint's stop pin is accurately assembled between the connection key and regulator block.

Refer to the MN4S0 Instruction Manual for details on handling the valve block.

СКД



Reduced wiring block manifold 3, 4 port pilot operated valve MN3S0/MN4S0 Series

Applicable cylinder bore size: Ø20 to Ø40 C C Refer to Intro 17 for details.



MN4GA/B JIS Symbol 3 port valve 4GA/B (Master 2-position single solenoid N.C. type Ď W4GA/B2 ₩. W4GB4 2-position single solenoid N.O. type MN3S0 MN4S0 Ð 4 port valve 4TB 2-position single solenoid 4L2-4/ Ř $\exists \Sigma$ LMF0 2-position double solenoid 4SA/B0 ED (4SA/B1 4KA/B 3-position all ports closed Ð 4F PV5G 3-position A/B/R connection CMF Ð ₩ T PV5/ CMF 3-position P/A/B connection 3MA/B0

Ř ₹₹

3PA/B

P/M/B

NP/NAP/

4F*0E

ΗMV

HSV

2QV

3QV

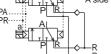
SKH

PCD/ FS/FD

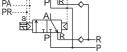
Ending

NVP

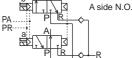
 Two 3 port valves integrated type N.C./N.C. type (N3S0660) B side N.C. đ A side N.C.



N.C./N.O. type (N3S0670) B side N.O. ĔΡ A side N.C



N.O./N.C. type (N3S0760) B side N.C.



N.O./N.O. type (N3S0770) B side N.O. A side N.O.



Manifold method	DIN Rail mount		
Manifold method	Direct mount (8 limited to stations)		
Manifold type	Common supply , Common exhaust		
Station quantity	From 1 station (refer to the following page.)		
Valve and operation type	Internal pilot operated soft spool valve		
Working fluid	Compressed air		
Max. working pressure MPa	0.70		
Min. working pressure MPa	0.20		
Min. working pressure MPa	(When external pilot , main pressure 0)		
Withstanding pressure MPa	1.05		
Ambient temperature °C	5 to 50		
Fluid temperature °C	5 to 50		
Lubrication	Not required		
Protective structure	Dust proof		
Vibration/impact m/s ²	50 or less / 300		
Working environment	Containing corrosive gas is impermissible.		

Electric specifications

Descrip	tions		Descriptions		
Rated voltage _V	DC		12 , 24		
Rated voltage fluctuation range		ation range	±10% (When using with serial transmission +10%, -5%)		
Rated current	DC	12 V	0.050		
Α	DC	24 V	0.025		
Power consumption W	DC	12 V 24 V	0.6		
Heat proof class			В		
Surge protective circuit			With surge suppressor		
Indicator			LED		

Individual specifications

Port Descript	ions	3 port valve	4 port valve	Note 2 3 port valve 2 piece integrated type
	A/B Port	ø4, ø6 push-in joint , M5	ø4, ø6 push-in joint , M5	ø4, ø6 push-in joint , M5
Port size	P/R Port	ø8, ø6 push-in joint	ø8, ø6 push-in joint	ø8, ø6 push-in joint
	External pilot port	ø6 push-in joint	ø6 push-in joint	-
Response time	2-position	20 or less	20 or less	20 or less
	3-position	-	30 or less	-

Note1: Response time is the value when ON for supply pressure 0.5 MPa, pre-lubricated. The value varies depending on pressure and quality of lubricant. Note2: For two 3 port valve integrated valve block, external pilot is not available because main pressure is used to operate valving element. Supply enough air flow rate not to drop supply pressure less than minimum working pressure by driving connecting load (air operated valve) etc.

Flow characteristics

Descriptions			C (dm³/ (s·bar))	b
3 port valve	2-positio	n	0.80	0.33
	2-positio	n	0.80	0.33
1 port volvo	3-position	all ports closed	0.57	0.31
4 port valve		A/B/R connection	0.80	0.34
		P/A/B connection	0.60	0.31
Two 3 port valves integrated type 2-position			0.50	0.17

Note 1: Effective sectional area S and sonic conductance C are converted as S = 5.0 x C. Note 2: The flow characteristics are the values with check valve (standard).

Ozone specifications (Ending 5) -Voltage-(P11



Reduced wiring block manifold

Slave unit specifications

Descriptions	T6C1 T6C0	Note 1 T6G1	T6A1 T6A0	T6J1 T6J0	T6E1 T6E0		
Unit side power voltage	24 VDC \pm 10	0%	24 VDC				
Valve side power voltage	24 VDC +10% -5	%	+10% -5%				
Unit side current consumption	T6C1: 60mA or less, T6C0: 40mA or less	100mA or less	100 m/	60 mA or less			
Unit side current consumption	(when all outputs ON)	(when all outputs ON)			when all outputs ON.		
Valve side current consumption	15mA or less (All	points OFF)	Current consumption	n of valve not included	of valve not included		
Output no.	T6C1: 16 points		T6A1: 16 points	T6J1: 16 points	T6E1: 16 points		
	T6C0: 8 points	16 points	T6A0: 8 points	T6J0: 8 points	T6E0: 8 points		

Note 1: CC-Link is Ver.1.10.

Manifold wiring specifications Note1

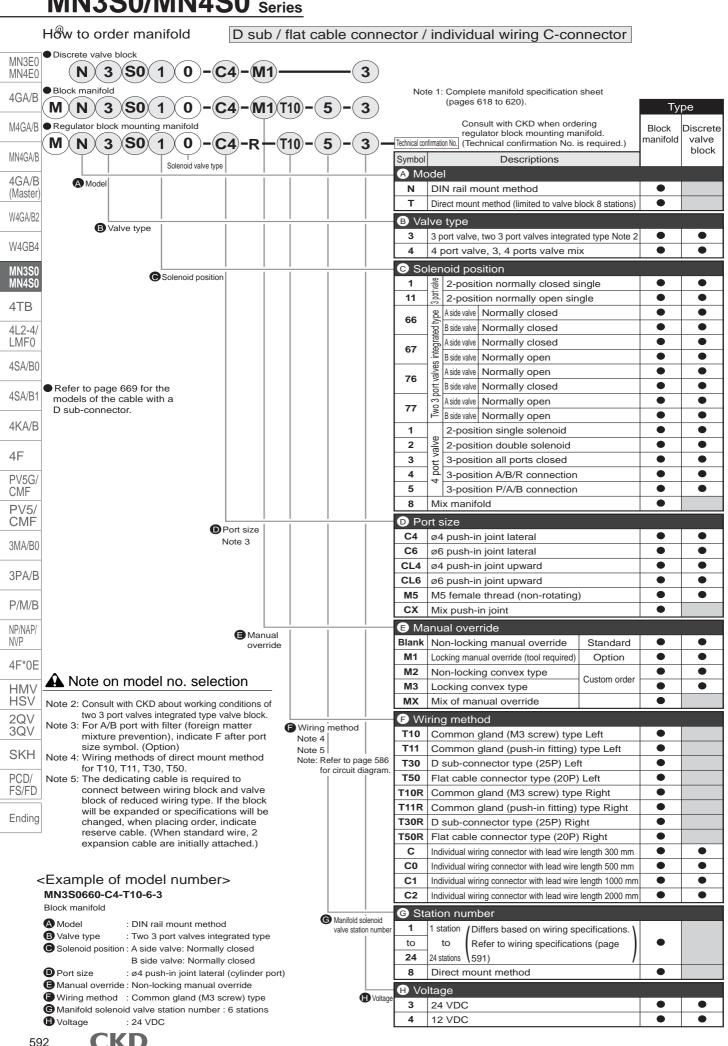
Descriptions			Max. station number			
		Descriptions	Double solenoid	Single solenoid	Mix manifold (solenoid number)	
	T10(Left)	Tourisday and Mo				
Common gland type	T10R(Right)	Terminal thread M3	7 stations	14 stations	14 points	
Common giano type	T11(Left)	26 pole push tiahtening type		04 - + - +	04	
	T11R(Right)		12 stations	24 stations	24 points	
D sub-connector type	T30(Left)	MIL standards D sub-connector (Terminal number 25)		04 - + - +	04	
(25P)	T30R(Right)		12 stations	24 stations	24 points	
Flat cable	T50(Left)	Pressure welding connector MIL-C-83503 standards conformed	8 stations		10	
connector type (20P)	T50R(Right)	Flat cable 1.27 mm pitch 20 pieces		16 stations	16 points	
	T6A0	UNIWIRE SYSTEM	4 stations	8 stations	8 points	
	T6A1		8 stations	16 stations	16 points	
Serial transmission type	T6C0	OMRON	4 stations	8 stations	8 points	
(With dedicated unit)	T6C1	CompoBus/S	8 stations	16 stations	16 points	
	T6E0	SUNX	4 stations	8 stations	8 points	
	T6E1	S-LINK	8 stations	16 stations	16 points	
	T6G1	CC-Link	8 stations	16 stations	16 points	
	T6J0	UNIWIRE H SYSTEM	4 stations	8 stations	8 points	
	T6J1		8 stations	16 stations	16 points	
	С	Individual connector lead wire length 300 mm	-	-	-	
Individual wiring connector type	C0	Individual connector lead wire length 500 mm	-	-	-	
(Double is common)	C1	Individual connector lead wire length 1000 mm	-	-	-	
	C2	Individual connector lead wire length 2000 mm	-	-	-	

Note 1 Contact CKD if more manifold stations than the max. number of stations for each reduced-wiring specification are required.

Weight

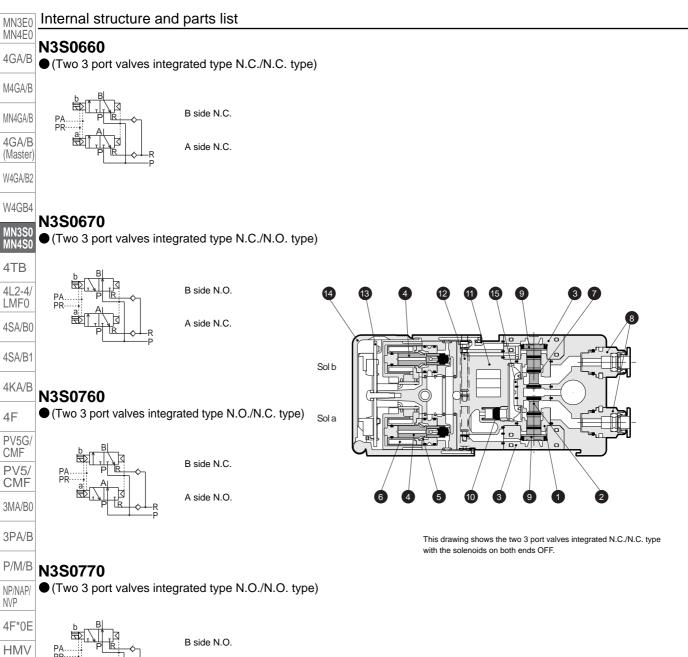
	Descriptions	Common gland type T10 (R) / T11 (R)	D sub-connector type T30 (R)	Flat cable connector type T50 (R)	Serial transmission type T6*	
block	Weight (g)	175	85	85	220	
Supply/exhaust	Descriptions	Q	QK	QZ	QKZ	
block	Weight (g)		53	48	60	
Partition	Descriptions	S	SA	SP	SE	
block	Weight (g)	20	20	20	20	
Valve	Descriptions	N4S010	N4S020	N4S030/040/050	N3S010/110	N3S0**0
block	Weight (g)	50	55	58	46	55
End	Descriptions	E (EL)	EX (EXL)			
block	Weight (g)	50	50			
DIN	Descriptions	-				
rail	Weight (g)	0.9 g/mm				

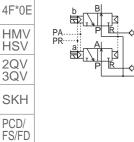
MN3E0 MN4E0



How to order	manifold	Carial			Reduced wiring block manifold	
 How to order Discrete valve bloc 		Serial	transmission		r	MN3E
N 4 S	30 1 0 - (C4-M1-	3			MN3E MN4E
Block manifold			\sim	No		4GA/I
		C4)-(M1)	(T6G1)-(5)-(3)	Nou	te 1: Complete manifold specification sheet (pages 618 to 620).	M4GA/
Regulator block mo						IVI40rv
M(N) 4	<u>50 1 0 - (</u>	C4)-R-(Technic	Consult with CKD when ordering	MN4GA
	Solenoid valve type	e			regulator block mounting manifold. Block Discrete (Technical confirmation No. is required) manifold valve	4GA/I
				Symbol	Descriptions block	(Maste
A Model	<u> </u>			A Mo	odel	W4GA/E
					DIN rail mount method	W4GB
B Valve	type				lve type	MN3S
				-		MN33 MN4S
	Solenoid position			- C So		4TB
				1		4L2-4
				11	Best Provision Normally open single Image: Constraint open single Image: Aside value Normally closed	LMFO
				66	B side valve Normally closed	4SA/B
				67	A side valve Normally closed • • B side valve Normally closed • • A side valve Normally closed • • A side valve Normally closed • • A side valve Normally closed • • B side valve Normally closed • • B side valve Normally closed • •	40 A/I
					B side valve Normally open A side valve Normally open	4SA/E
				76		4KA/
					no Aside valve Normally open	4F
				1		
				2	0	PV50 CMF
				3		PV5
				4	3-position P/A/B connection	CMF
					3-position P/A/B connection • Mix manifold •	3MA/E
	ſ	Port size		D Poi	rt size	3PA/
	-	Note 3			ø4 push-in joint lateral	
		• N	Manual override		ø4 push-in joint upward	P/M/
				CL6	ø6 push-in joint upward	NP/NA NVP
A Note on n	nodel no. sele	ection			M5 female thread (non-rotating)	
	n CKD about working f two 3 port valves	g				4F*0
integrated ty	/pe valve block. t with filter (foreign n			-		HM HS
mixture prev	vention), indicate F a			M1	Locking manual override (tool required) Option	2Q\
ote 4: The dedicati	mbol. (Option) ing cable is required				Non-locking convex type Custom •	3Q\
block of redu	ween wiring block an uced wiring type. If th	he block			Locking convex type order • Mix of manual override • •	SKI
will be expar	nded or specification	ns will be			ring method	PCD
reserve cabl	e. (When standard w able are initially attac	wire, 2	Wiring method Note 4	T6A0	Serial transmission type (UNIWIRE SYSTEM 8 points)	FS/F
блранска	Die ale initiany	fieu.	Note: Refer to page 586 for circuit diagram	~ +	Serial transmission type (UNIWIRE SYSTEM 16 points) Serial transmission type (OMRON: CompoBus/S 8 points)	Endi
- male of p	1.1					p
Example of m //N3S010-C4-T60	nodel number: G1-6-3	>		T6E0	Serial transmission type (SUNX: S-LINK 8 points)	unifo ^r alve
Block manifold	11-0-0				Serial transmission type (SUNX: S-LINK 16 points) Serial transmission type (CC-Link 16 points)	Reduced wiring block manifold 3.4 port pilot operated valve
Model: DIN rail mo	ount method				Serial transmission type (UC-Link 16 points) Serial transmission type (UNIWIRE H SYSTEM 8 points)	oloc⊧ erat∈
Valve type	: 3 Port valve			T6J1	Serial transmission type (UNIWIRE H SYSTEM 16 points)	ing t
Solenoid position	: 2-position normally of Single	closed	G Manifold		ation number	l wiri
Port size	: ø 4 push-in joint late	əral	solenoid valve station number	1 to	1 station / Differs based on wiring specifications.	Jced
	(Cylinder port) : Non-locking manual				16 stations (page 591)	Sed(
			10 1 1 1			<u> </u>
Wiring method	: Serial transmission t valve station number:		(16 points)	e 🕂 Vol	Itage 24 VDC ● ●	

Reduced wiring block manifold (valve block): Two 3 port valves integrated type





A side N.O.

Main parts list

Ending

No.	Parts name	Material No.		Parts name	Material
1	Body	Aluminum alloy 9 Piston D assembly		Piston D assembly	-
2	Valving element (spool)	Aluminum, nitrile rubber	10	Check valve	-
3	Сар	-	11	Pilot block	Resin
4	Plunger	Stainless steel	12	Manual override	Aluminum
5	Plunger spring	Stainless steel wire	13	Circuit board assembly	-
6	Coil assembly	-	14	Electric cover	Polycarbonate
7	Spool packing seal	Nitrile rubber	15	Lead valve assembly	-
8	Cartridge type push-in joint	-			

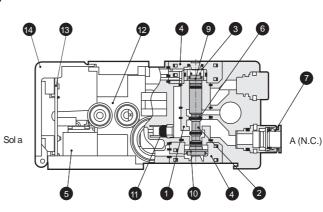
Reduced wiring block manifold (valve block): 3 port valve

Internal structure and parts list

N3S010

2-position single solenoid normally closed

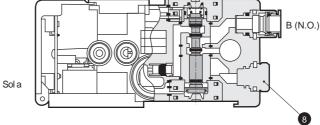




N3S0110

2-position single solenoid normally open





Main parts list

Ма	in parts list					p
No.	Parts name	Material	No.	Parts name	Material	nanifold valve
1	Body	Aluminum alloy	9	Piston S assembly	-	ted r
2	Valving element (spool)	Aluminum alloy	10	Piston D assembly	-	olock erate
3	Valve spring	-	11	Check valve	-	d be
4	Сар	-	12	Pilot block	Resin	wirir pilot
5	Coil assembly	-	13	Circuit board assembly	-	
6	Spool packing seal	Nitrile rubber	14	Electric cover	Polycarbonate	port
7	Cartridge type push-in joint	-				Redu 3, 4 p
8	Plug cartridge	-				പപ

4GA/B M4GA/B MN4GA/B 4GA/B (Master) W4GA/B2 W4GB4 MN3S0 MN4S0 4TB 4L2-4/ LMF0 4SA/B0 4SA/B1 4KA/B 4F PV5G/ CMF PV5/ CMF 3MA/B0 3PA/B P/M/B NP/NAP/ NVP 4F*0E HMV HSV 2QV 3QV SKH PCD/ FS/FD Ending

MN3E0 MN4E0

Reduced wiring block manifold (valve block): 4 port valve

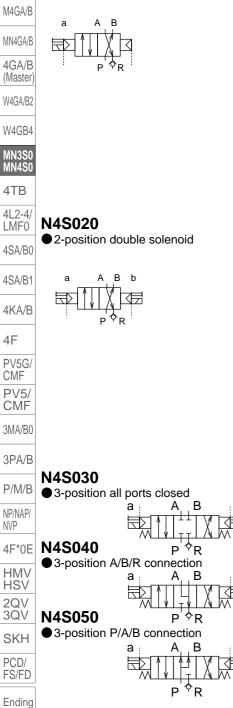
Internal structure and parts list

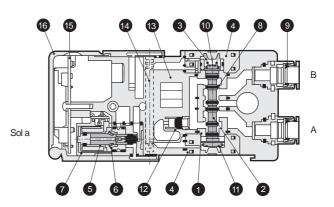
N4S010

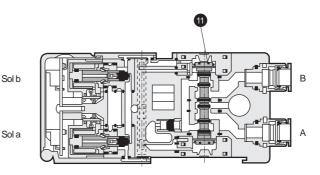
MN3E0 MN4E0

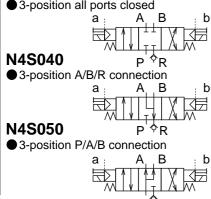
4GA/B

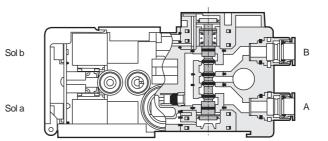
2-position single solenoid











This drawing shows the state with the all ports closed OFF.

Main parts list

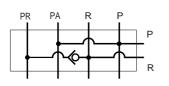
No.	Parts name	Material	No.	Parts name	Material
1	Body	Aluminum alloy	9	Cartridge type push-in joint	-
2	Valving element (spool)	Aluminum alloy	10	Piston S assembly	-
3	Valve spring	-	11	Piston D assembly	-
4	Сар	-	12	Check valve	-
5	Plunger	Stainless steel	13	Pilot block	Resin
6	Plunger spring	Stainless steel wire	14	Manual override	Aluminum
7	Coil assembly	-	15	Circuit board assembly	-
8	Spool packing seal	Nitrile rubber	16	Electric cover	Polycarbonate

Reduced wiring block manifold (supply/exhaust block)

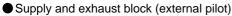
Internal structure and parts list

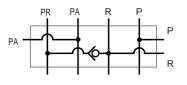
N4S0-Q

Supply and exhaust block (internal pilot)



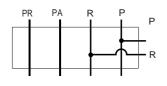
N4S0-QK





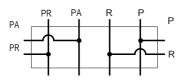
N4S0-QZ

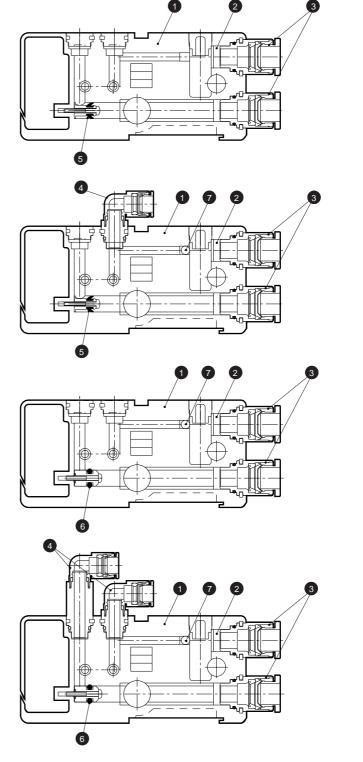
• Supply and exhaust block (multi-pressure circuit)



N4S0-QKZ

• Supply and exhaust block (PA/PR separate type for external pilot)





Main parts list

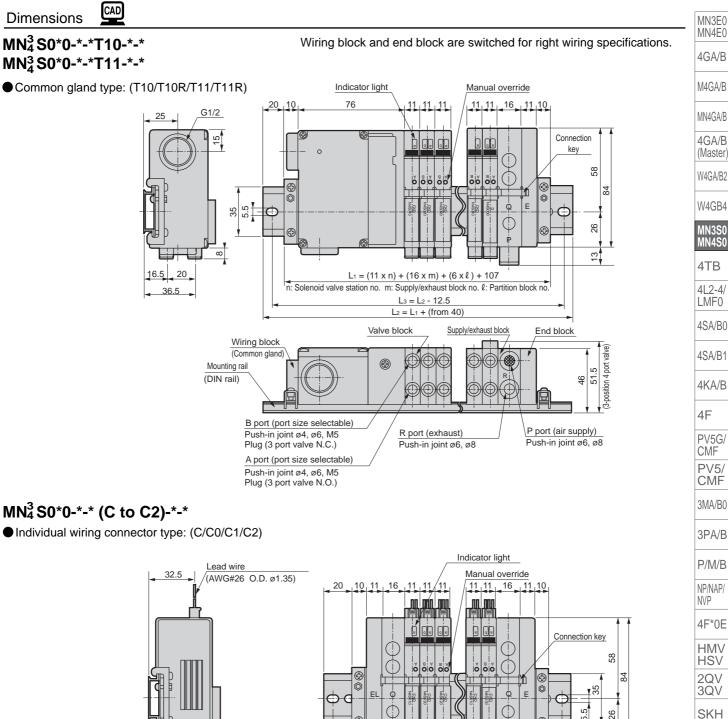
No.	Parts name	Material	No.	Parts name	Material
1	Supply and exhaust block	Resin	5	Check valve	-
2	Filter	-	6	R/PR separation plug	-
3	Cartridge type push-in joint (main piping section)	-	7	Stainless steel ball	-
4	Cartridge type push-in joint (external pilot piping)	-			

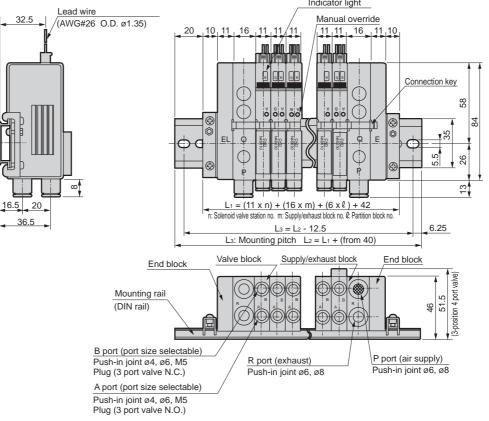
Reduced wiring block manifold: DIN rail mount

CAD Dimensions MN3E0 MN4E0 MN³ S0*0-*-*T6*-*-* 4GA/B ● Serial transmission type: (T6A0/1, T6C0/1, T6E0/1, T6G1, T6J0/1) M4GA/B MN4GA/B Indicator light Manual override 4GA/B (Master 20 10 50 11.5 10 26 16 11,10 11,11 11 11 11 W4GA/B2 9898 Connection key W4GB4 58 MN3S0 MN4S0 b őlő 00 ŏlŏ ŏŏ Ð (†) () 8 õ 35 4TB ģ E O C \bigcirc 4L2-4/ 0 æ LMF0 8 <u></u> 4SA/B0 $L_1 = (11 \text{ x n}) + (16 \text{ x m}) + (6 \text{ x}\ell) + 128.5$ 16.5 20 n: Solenoid valve station no. m: Supply/exhaust block no. l: Partition block no. 4SA/B1 6.25 $L_3 = L_2 - 12.5$ 36.5 L3: Mounting pitch $L_2 = L_1 + (from 40)$ 46 4KA/B Serial transmission slave unit Wiring block Valve block End block Supply/exhaust block 4F (3-position 4 port valve) PV5G/ Mounting rail عاططط 51.5 46 CMF (DIN rail) PV5/ CMF B port (port size selectable) R port (exhaust) 3MA/B0 P port (air supply) Push-in joint ø4, ø6, M5 Plug (3 port valve N.C.) Push-in joint ø6, ø8 Push-in joint ø6, ø8 3PA/B A port (port size selectable) P/M/B Push-in joint ø4, ø6, M5 Plug (3 port valve N.O.) NP/NAP/ NVP 4F*0E HMV Dimensions of piping blocks (all type common) HSV 2QV • Valve block, Valve block, Supply/exhaust block, • Supply/exhaust block, 3QV Push-in joint upward M5, joint Upward piping For external pilot N₄³S0*0-CL6 (CL4) N₄³S0*0-M5 N4S0-Q-8L N4S0-QK-L SKH 60 PCD/ FS/FD Ending 49 øll 20 8.5 Push-in ø10.8 joint 16.5 20 à M5 female thread 16.5 16 (14) 0 ø6 (CL6) a14.5 20 16.5 53 57 (51)

B CKD

Reduced wiring block manifold: DIN rail mount





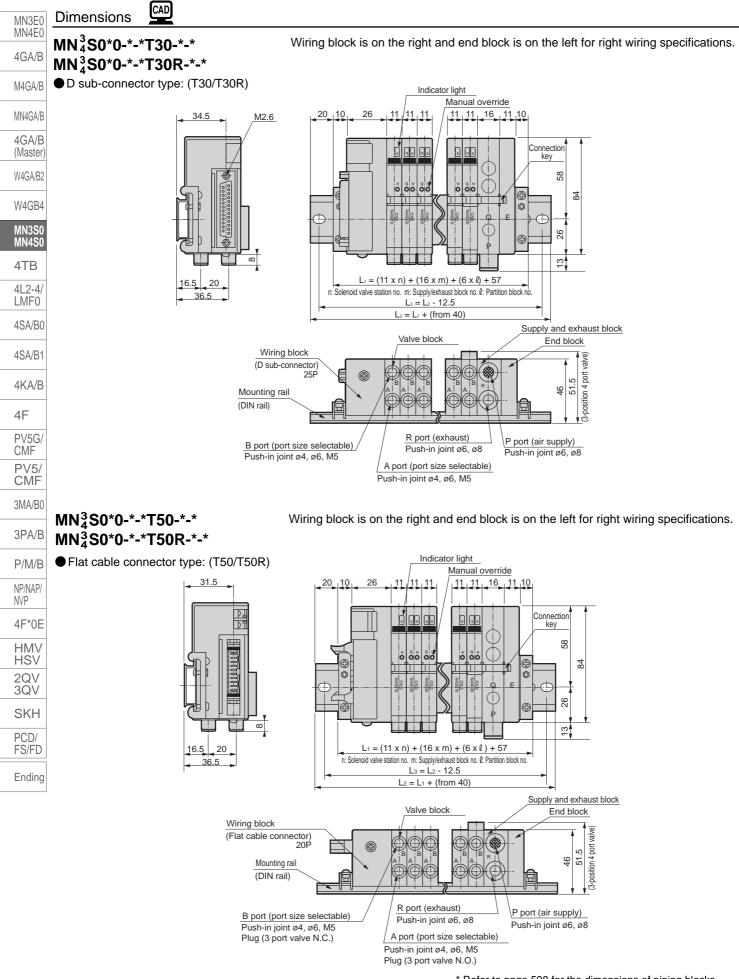
PCD/

FS/FD

Ending

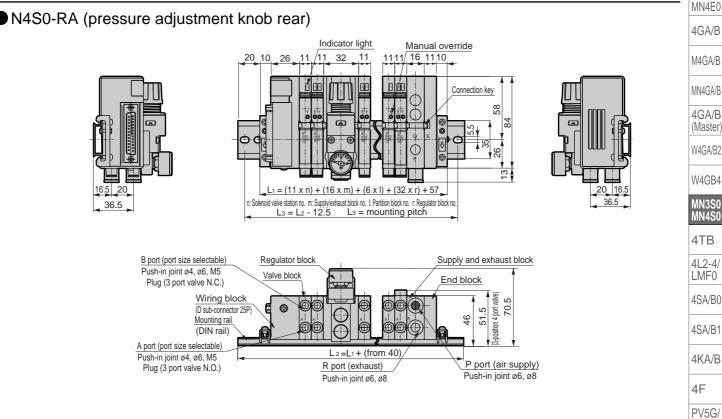
Reduced wiring block manifold 3, 4 port pilot operated valve

Reduced wiring block manifold: DIN rail mount

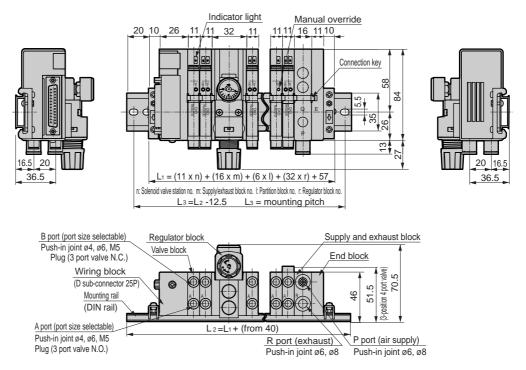


Regulator block mounting manifold: DIN rail mount

Dimensions



N4S0-RB (pressure adjustment knob front)

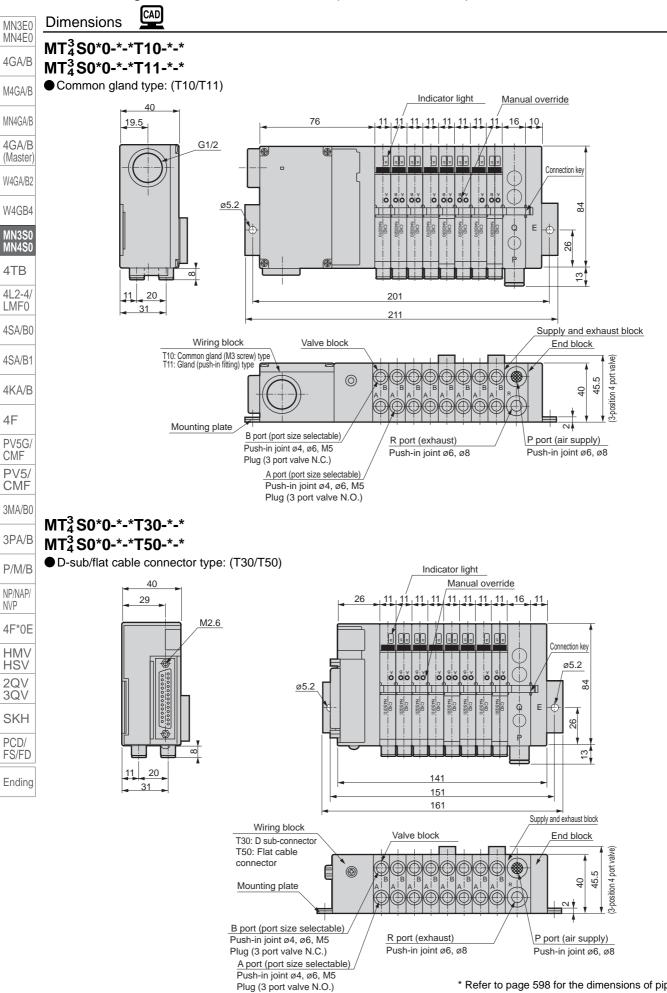


MN4GA/B 4GA/B (Master) W4GA/B2 W4GB4 MN3S0 MN4S0 4TB 4L2-4/ LMF0 4SA/B0 4SA/B1 4KA/B PV5G/ CMF PV5/ CMF 3MA/B0 3PA/B P/M/B NP/NAP/ NVP 4F*0E HMV HSV 2QV 3QV SKH PCD/ FS/FD Ending Reduced wiring block manifold 3, 4 port pilot operated valve

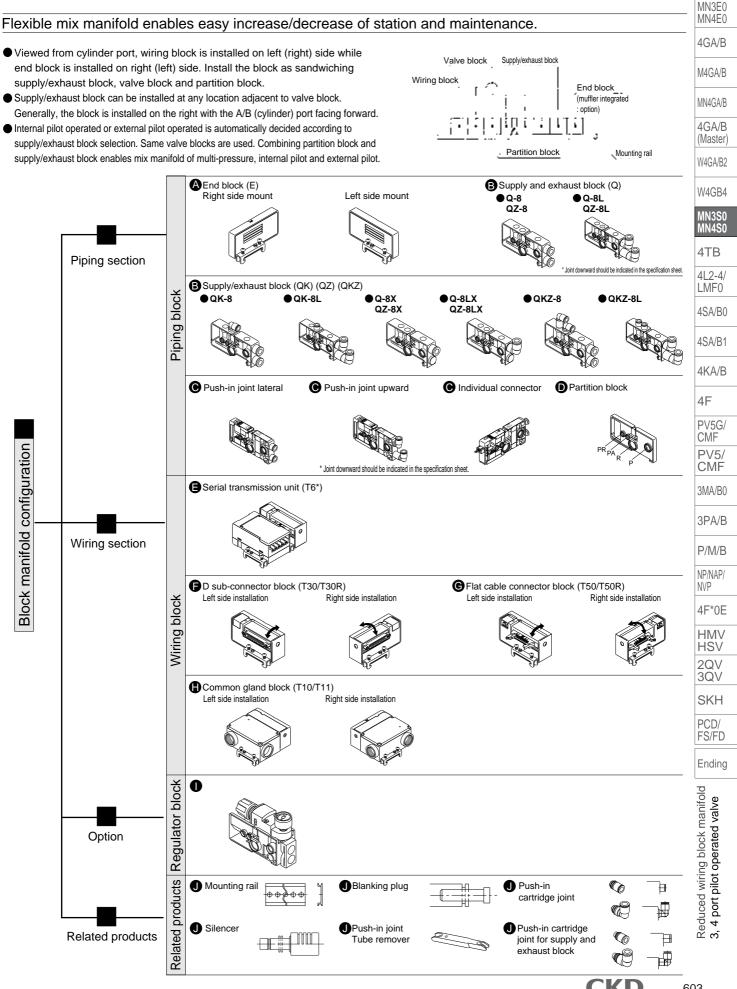
MN3E0

MT3S0/MT4S0 Series

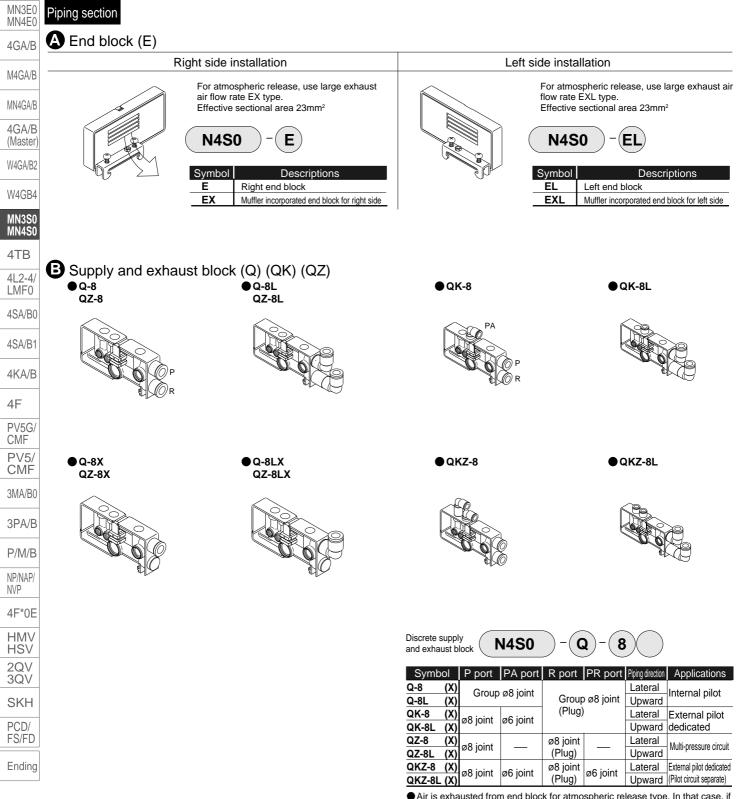
Reduced wiring block manifold: Direct mount (limited to 8 stations)



Reduced wiring block manifold: Block



Reduced wiring block manifold: Block



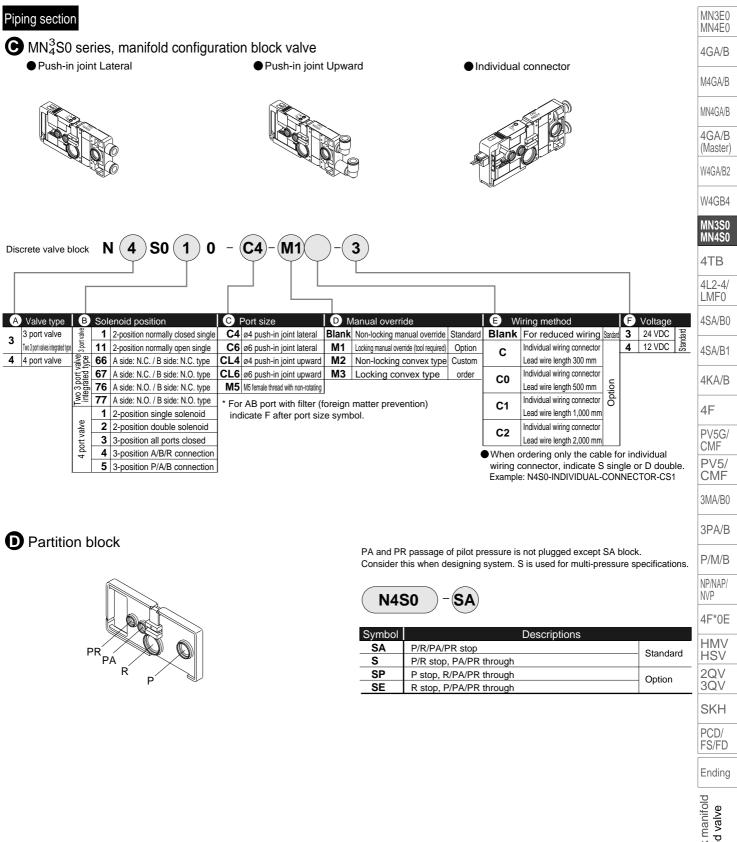
● Air is exhausted from end block for atmospheric release type. In that case, if R port with plug is required, indicate "X" after model no.

● Port sizes ø6, 1/4 (ø6.4) of P/R ports are custom order. Model No. of ø6 is N4S0-Q-6, 1/4 is N4S0-Q-6.4

OZ is used with Q and QK. Can not be used as a discrete part.

A filter for preventing entry of foreign matter is incorporated in P port. (Standard)

Reduced wiring block manifold: Block



R4 duced wiring block manifold. Block

	Reduced wiring block manifold:	Block			
MN3E0 MN4E0 4GA/B					
M4GA/B		*) N4S (0 - 7	6*	
MN4GA/B	Slave unit OPP3		unit and manifol		nnected with flat cable connector.
4GA/B (Master)			escriptions		Descriptions
W4GA/B2		0-T56 ransmission	T6A T6C T6C	1 16 pi 0 8 p	oints Compatible with each maker's PLC, personal computer and SBC oints OMRON SYSMAC α/CS1 series, C200HS, CQM1 series oints CompoBus/S
W4GB4		tor block Serial transmi		0 8 p 1 16 p	oints SUNX Compatible with each maker's PLC oints S-LINK oints CC-Link
MN3S0 MN4S0			T6J T6J	0 8 p	oints UNIWIRE H SYSTEM jints Compatible with each maker's PLC, personal computer and SBC
4TB	_				
4L2-4/ LMF0	Discrete serial transmission sla	ave unit model no.			
4SA/B0	N4S0 - OPP3 - OA)			
4SA/B1			Symbol		Descriptions
			• • • • •		othod
4KA/B		/iring method		iring m	
4KA/B 4F		/iring method	0A 0A 1A	T6A0	Serial transmission type (UNIWIRE SYSTEM 8 points)
4F PV5G/	- A W	/iring method	0A	T6A0 T6A1	
4F PV5G/ CMF	- · · · · · · · · · · · · · · · · · · ·	/iring method	0A 1A 0C 1C	T6A0 T6A1 T6C0 T6C1	Serial transmission type (UNIWIRE SYSTEM 8 points) Serial transmission type (UNIWIRE SYSTEM 16 points) Serial transmission type (OMRON: CompoBus/S 8 points) Serial transmission type (OMRON: CompoBus/S 16 points)
4F PV5G/ CMF PV5/	- A W	/iring method	0A 1A 0C 1C 0E	T6A0 T6A1 T6C0 T6C1 T6E0	Serial transmission type (UNIWIRE SYSTEM 8 points) Serial transmission type (UNIWIRE SYSTEM 16 points) Serial transmission type (OMRON: CompoBus/S 8 points) Serial transmission type (OMRON: CompoBus/S 16 points) Serial transmission type (SUNX: S-LINK 8 points)
4F PV5G/ CMF PV5/ CMF		/iring method	0A 1A 0C 1C 0E 1E	T6A0 T6A1 T6C0 T6C1 T6E0 T6E1	Serial transmission type (UNIWIRE SYSTEM 8 points) Serial transmission type (UNIWIRE SYSTEM 16 points) Serial transmission type (OMRON: CompoBus/S 8 points) Serial transmission type (OMRON: CompoBus/S 16 points) Serial transmission type (SUNX: S-LINK 8 points) Serial transmission type (SUNX: S-LINK 16 points)
4F PV5G/ CMF PV5/		/iring method	0A 1A 0C 1C 0E 1E 1G	T6A0 T6A1 T6C0 T6C1 T6E0 T6E1 T6G1	Serial transmission type (UNIWIRE SYSTEM 8 points) Serial transmission type (UNIWIRE SYSTEM 16 points) Serial transmission type (OMRON: CompoBus/S 8 points) Serial transmission type (OMRON: CompoBus/S 16 points) Serial transmission type (SUNX: S-LINK 8 points) Serial transmission type (SUNX: S-LINK 16 points) Serial transmission type (CC-Link 16 points)
4F PV5G/ CMF PV5/ CMF		/iring method	0A 1A 0C 1C 0E 1E	T6A0 T6A1 T6C0 T6C1 T6E0 T6E1 T6G1 T6J0	Serial transmission type (UNIWIRE SYSTEM 8 points) Serial transmission type (UNIWIRE SYSTEM 16 points) Serial transmission type (OMRON: CompoBus/S 8 points) Serial transmission type (OMRON: CompoBus/S 16 points) Serial transmission type (SUNX: S-LINK 8 points) Serial transmission type (SUNX: S-LINK 16 points)
4F PV5G/ CMF PV5/ CMF 3MA/B0		/iring method	0A 1A 0C 1C 0E 1E 1G 0J	T6A0 T6A1 T6C0 T6C1 T6E0 T6E1 T6G1 T6J0	Serial transmission type (UNIWIRE SYSTEM 8 points) Serial transmission type (UNIWIRE SYSTEM 16 points) Serial transmission type (OMRON: CompoBus/S 8 points) Serial transmission type (OMRON: CompoBus/S 16 points) Serial transmission type (SUNX: S-LINK 8 points) Serial transmission type (SUNX: S-LINK 16 points) Serial transmission type (CC-Link 16 points) Serial transmission type (UNIWIRE H SYSTEM 8 points)
4F PV5G/ CMF PV5/ CMF 3MA/B0 3PA/B		/iring method	0A 1A 0C 1C 0E 1E 1G 0J	T6A0 T6A1 T6C0 T6C1 T6E0 T6E1 T6G1 T6J0	Serial transmission type (UNIWIRE SYSTEM 8 points) Serial transmission type (UNIWIRE SYSTEM 16 points) Serial transmission type (OMRON: CompoBus/S 8 points) Serial transmission type (OMRON: CompoBus/S 16 points) Serial transmission type (SUNX: S-LINK 8 points) Serial transmission type (SUNX: S-LINK 16 points) Serial transmission type (CC-Link 16 points) Serial transmission type (UNIWIRE H SYSTEM 8 points)
4F PV5G/ CMF PV5/ CMF 3MA/B0 3PA/B P/M/B NP/NAP/		/iring method	0A 1A 0C 1C 0E 1E 1G 0J	T6A0 T6A1 T6C0 T6C1 T6E0 T6E1 T6G1 T6J0	Serial transmission type (UNIWIRE SYSTEM 8 points) Serial transmission type (UNIWIRE SYSTEM 16 points) Serial transmission type (OMRON: CompoBus/S 8 points) Serial transmission type (OMRON: CompoBus/S 16 points) Serial transmission type (SUNX: S-LINK 8 points) Serial transmission type (SUNX: S-LINK 16 points) Serial transmission type (CC-Link 16 points) Serial transmission type (UNIWIRE H SYSTEM 8 points)
4F PV5G/ CMF PV5/ CMF 3MA/B0 3PA/B P/M/B NP/NAP/ NVP		/iring method	0A 1A 0C 1C 0E 1E 1G 0J	T6A0 T6A1 T6C0 T6C1 T6E0 T6E1 T6G1 T6J0	Serial transmission type (UNIWIRE SYSTEM 8 points) Serial transmission type (UNIWIRE SYSTEM 16 points) Serial transmission type (OMRON: CompoBus/S 8 points) Serial transmission type (OMRON: CompoBus/S 16 points) Serial transmission type (SUNX: S-LINK 8 points) Serial transmission type (SUNX: S-LINK 16 points) Serial transmission type (CC-Link 16 points) Serial transmission type (UNIWIRE H SYSTEM 8 points)
4F PV5G/ CMF PV5/ CMF 3MA/B0 3PA/B P/M/B NP/NAP/ NVP 4F*0E HMV		/iring method	0A 1A 0C 1C 0E 1E 1G 0J	T6A0 T6A1 T6C0 T6C1 T6E0 T6E1 T6G1 T6J0	Serial transmission type (UNIWIRE SYSTEM 8 points) Serial transmission type (UNIWIRE SYSTEM 16 points) Serial transmission type (OMRON: CompoBus/S 8 points) Serial transmission type (OMRON: CompoBus/S 16 points) Serial transmission type (SUNX: S-LINK 8 points) Serial transmission type (SUNX: S-LINK 16 points) Serial transmission type (CC-Link 16 points) Serial transmission type (UNIWIRE H SYSTEM 8 points)
4F PV5G/ CMF PV5/ CMF 3MA/B0 3PA/B P/M/B NP/NAP/ NVP 4F*0E HMV HSV 2QV		/iring method	0A 1A 0C 1C 0E 1E 1G 0J	T6A0 T6A1 T6C0 T6C1 T6E0 T6E1 T6G1 T6J0	Serial transmission type (UNIWIRE SYSTEM 8 points) Serial transmission type (UNIWIRE SYSTEM 16 points) Serial transmission type (OMRON: CompoBus/S 8 points) Serial transmission type (OMRON: CompoBus/S 16 points) Serial transmission type (SUNX: S-LINK 8 points) Serial transmission type (SUNX: S-LINK 16 points) Serial transmission type (CC-Link 16 points) Serial transmission type (UNIWIRE H SYSTEM 8 points)
4F PV5G/ CMF PV5/ CMF 3MA/B0 3PA/B P/M/B NP/NAP/ NVP 4F*0E HMV HSV 2QV 3QV		/iring method	0A 1A 0C 1C 0E 1E 1G 0J	T6A0 T6A1 T6C0 T6C1 T6E0 T6E1 T6G1 T6J0	Serial transmission type (UNIWIRE SYSTEM 8 points) Serial transmission type (UNIWIRE SYSTEM 16 points) Serial transmission type (OMRON: CompoBus/S 8 points) Serial transmission type (OMRON: CompoBus/S 16 points) Serial transmission type (SUNX: S-LINK 8 points) Serial transmission type (SUNX: S-LINK 16 points) Serial transmission type (CC-Link 16 points) Serial transmission type (UNIWIRE H SYSTEM 8 points)

Reduced wiring block manifold: Block

Wiring section (Wiring block)	Ν	MN3E0
Winng Section (Wiring block) * The wiring block is integrated with the wiring cable		VIN4E0
and cannot be ordered as a discrete part.	4	4GA/B
D sub-connector block (T30/T30R) *MIL standards conformed	(MIL-C-24308)	/4GA/B
Left side installation	Right side installation	/IN4GA/B
N4S0 - T30	N4S0 - T30R	4GA/B Master)
Rotation lock screw		N4GA/B2
Set screw		N4GB4
M2.6		MN3S0 MN4S0
		4TB
	4	4L2-4/
G Flat cable connector block (T50/T50R) *MIL standards confo	rmed (MIL-C-83503)	
Left side installation	Right side installation 4	1SA/B0
N4S0 - T50	N4S0 - T50R 4	4SA/B1
		4KA/B
Terminal for external power	3 THE	4F
M3		PV5G/
Connecting OMRON trans G71-OD16DC24V enables	e direct drive.	CMF PV5/
Supply 24 VDC to externa	power terminal.	CMF
	3	3MA/B0
Common gland block (T10/T11)	З	3PA/B
Left side installation	Right side installation F	P/M/B
		NP/NAP/ NVP
G1/2 Solenoid 14 points T10/T10R		4F*0E
Solenoid 24 points		HMV
<u>T11/T11R</u>		HSV
Jul -		2QV 3QV
N4S0 - T10 Symbol Descriptions	N4S0 - T10R Symbol Descriptions	SKH
T10 M3 thread fastening gland for left T11 Push tightening gland for left		PCD/ =S/FD

Reduced wiring block manifold: Block

Block with regulator

MN3E0 MN4E0 4GA/B M4GA/B MN4GA/B 4GA/B (Master) W4GA/B2 W4GB4 MN3S0 MN4S0 4TB 4L2-4/ LMF0 4SA/B0 4SA/B1 4KA/B 4F PV5G/ CMF PV5/ CMF 3MA/B0 3PA/B P/M/B NP/NAP/ NVP 4F*0E HMV HSV 2QV 3QV SKH PCD/ FS/FD

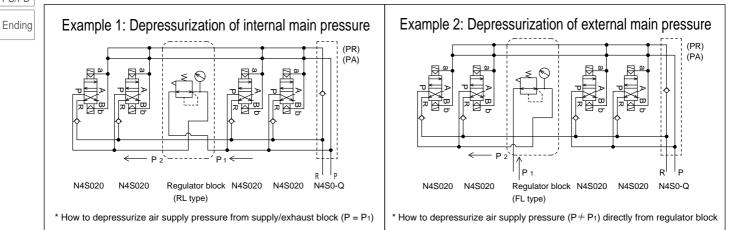
0					
B	N4S0 - RA - LR - C6 - FL259661				
B	N4S0 - RB - LR - C6 - FL259662				
В	$\neg \neg \neg \neg \neg \neg$	Symbol	Descriptions	Symbol	Descriptions
er)	Model no. A Pressure adjustment knob direction	A Pressure	e adjustment knob dir	ection	·
32 4 0		RA		RB	
0			Pressure adjustment gauge knob rear		Pressure adjustment gauge knob front
		B Air supp	ly / pressure adjustme	ent direction	
	B Air supply / pressure adjustment direction				
) 0		LR	P2 P1	RL	P1 P2
B 5/		FR	P2 P2 P1	FL	P P
/					12 -
-		Symbol		Descriptions	
0		C Joint size			
0	• Coutions on model no coloction Note 1	Blank	Plug (for air supply dir	ection LR, RL	_)
R	Cautions on model no. selection	C6	ø6 push-in joint (straig	jht)	
	Note 1: Straight joint provided as standard. Elbow is custom order part.	C8	ø8 push-in joint (straig	jht)	
3	Note 2: When mounting regulator block on the manifold, a supply/exhaust block	CL6	ø6 push-in joint (elbow	v)	Custom order
_	for pilot air is required.	CL8	ø8 push-in joint (elbow	v)	
/	Note 3: When using regulator block individually with external pressure control not from the same manifold, consult with CKD.				

Discrete regulator model no.



Note: When using the option, consult with CKD.

Application (Consult with CKD about other applications.)



MN3E0 MN4E0

4GA/B

M4GA/B

MN4GA/B

4GA/B (Master)

W4GA/B2

W4GB4

MN3S0 MN4S0

4TB

4L2-4/ LMF0

4SA/B0

4SA/B1

4KA/B

4F

PV5G/ CMF PV5/ CMF

3MA/B0

3PA/B

P/M/B

NP/NAP/ NVP

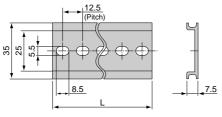
4F*0E

HMV HSV

ock

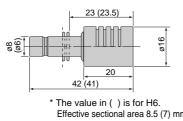
	Ũ	annora.	Wiring bloo
● Push	-in cartridge joint		
	I4S0 - JOINT - C4		
	alve block and supply/exhaust block PA p		
	vailable for P or R port of supply/exhaust		
Symbol C4			
C6	Push-in cartridge joint for ø4, ø6 tube	C	Ħ
CL4			
CL6	Short L type push-in cartridge joint (for ø4, ø6 tube		
CLL4	Long L type push-in cartridge joint		
CLL6	for ø4, ø6 tube	R	
CM5	M5 cartridge dedicated non rotating plate is necessa	rv. 🕅	〕
СМР	M5 cartridge dedicated non rotating pla		
CPG	Plug cartridge	ý	\bigcirc
СМВ	Cartridge plug for M5 cartridge	Q	\bigcirc
M5-4-KIT	M5 cartridge (x 2) Non	rotating plate for I	M5 cartridge (x 1)
M5-4-KIT M5-3-KIT	~	1) Non rotati	
M5-3-KIT Push-ir Use c	M5 cartridge (x 1) Cartridge plug for M5 cartridge (x 1) Cartridge (x 1) Cartr	1) Non rotati	k ng plate for M5 cartridge k
M5-3-KIT Push-ir	M5 cartridge (x 1) Cartridge plug for M5 cartridge (x 1) Cartridge plug for M5 cartridge (x 1) Cartridge plug for M5 cartridge (x 1) Comparison Cartridge plug for M5 cartridge (x 1) Cartridge (x 1) Cart	1) Non rotati	k ng plate for M5 cartridge k
M5-3-KIT Push-ir Use c	M5 cartridge (x 1) Cartridge plug for M5 cartridge (x 1) Cartridge (x 1) Cartr	1) Non rotati	↓ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
M5-3-KIT Push-ir Use c Symbol	M5 cartridge (x 1) Cartridge plug for M5 cartridge (x 1) Cartridge (x 1) Cartr	1) Non rotati	↓ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
M5-3-KIT Push-in Use c Symbol 8	M5 cartridge (x 1) Cartridge plug for M5 cartridge (x 1) Cartridge plug for M5 cartridge (x 1) Cartridge plug for M5 cartridge (x 1) Cartridge joint for supply/exhaust block A S Cartridge joint for supp	1) Non rotati	↓ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
M5-3-KIT Push-ir Use c Symbol 8 6	M5 cartridge (x 1) Cartridge plug for M5 cartridge (x 1) Cartridge plug for M5 cartridge (x 1) Cartridge plug for M5 cartridge (x 1) Cartridge joint for supply/exhaust block A 14S0 - Q - JOINT - compatible valve block above for pilot air s Dimension Push-in cartridge joint for ø8 tube Push-in cartridge joint for ø6 tube Short L type push-in cartridge joint	1) Non rotati	↓ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
M5-3-KIT Push-in Use c Symbol 8 6 8L	M5 cartridge (x 1) Cartridge plug for M5 cartridge (x 1) Cartridge joint for supply/exhaust block I4S0 – Q – JOINT – compatible valve block above for pilot air s Dimension Push-in cartridge joint for ø8 tube Push-in cartridge joint for ø6 tube Short L type push-in cartridge joint for ø8 tube Short L type push-in cartridge joint	1) Non rotati	↓ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
M5-3-KIT Push-ir Use c Symbol 8 6 8L 6L	M5 cartridge (x 1) Cartridge plug for M5 cartridge (x 1) Cartridge plug for M5 cartridge (x 1) Cartridge plug for M5 cartridge (x 1) Cartridge joint for supply/exhaust block I4S0 – Q – JOINT – compatible valve block above for pilot air s Dimension Push-in cartridge joint for ø8 tube Push-in cartridge joint for ø6 tube Short L type push-in cartridge joint for ø6 tube Short L type push-in cartridge joint for ø6 tube Long L type push-in cartridge joint	1) Non rotati	↓ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

U Related products Mounting rail

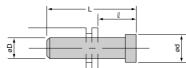


 Silencer (attachment) SLW-H8

SLW-H6



Blanking plug (attached)



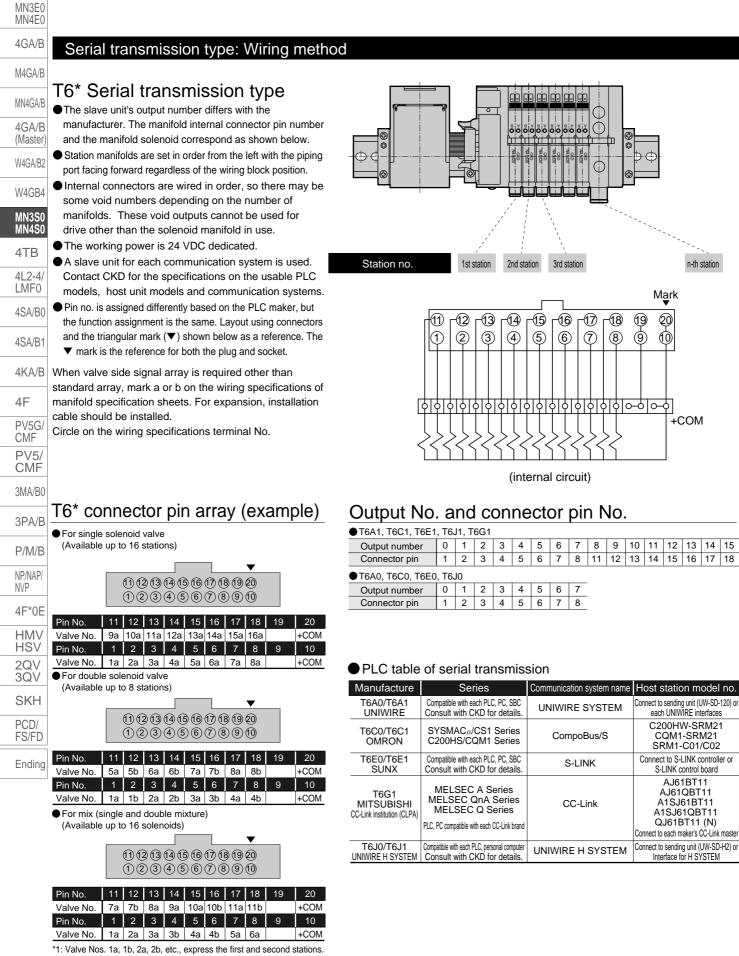
Model no.	D	L	Q	d
GZP4-B	ø4	27	19	6
GZP6-B	ø6	29	19	8
GZP8-B	ø8	33	19	10

Push-in joint tube remover

N4S0-EOT4-6

20

Technical data 1 Notes when wiring: Serial transmission type



Letters a and b refer to solenoid a or solenoid b.

Technical data 1 Notes when wiring: Common gland type

Common gland type: Wiring method

T10/T11 Common gland type

With the common gland, common wires are treated inside beforehand. Compatibility between terminal number (printed on gland cover) and manifold solenoid is as following table.

Station manifolds are set in order from the left with the piping port facing forward regardless of the wiring block position.

Precautions for common gland type

When using T10 type out side of panel, if required, prepare a protective cover.

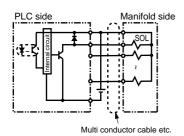
For common gland type, common wiring's already internally arranged. In the following cases, man-hours for wiring is increased or wiring is impossible.

Unify power supply of manifold.

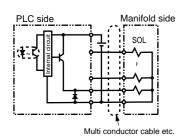
When individual contact point type PLC output unit, the contact should be wired to common.

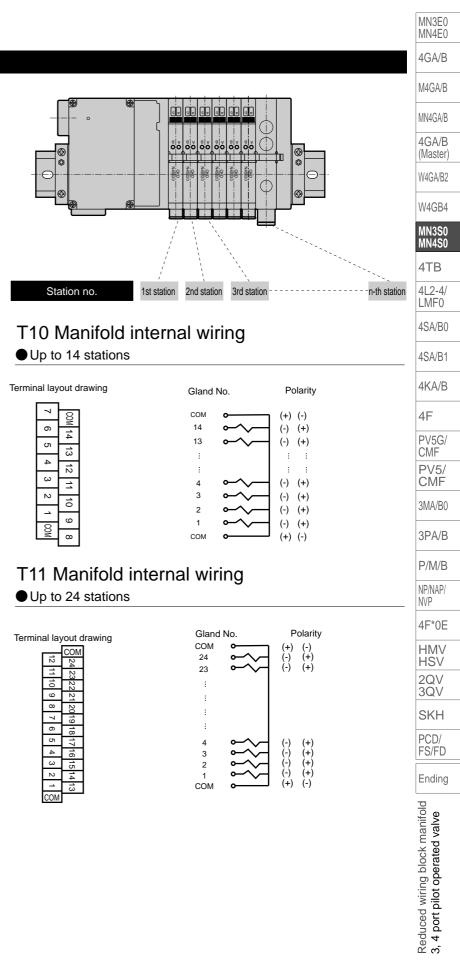
Wiring methods

• For DC output unit (NPN output)



• For DC output unit (PNP output)





Technical data 1 Notes when wiring: D sub-connector type

MN3E0 MN4E0		
4GA/B	D sub-connector type: Wiring method	T30
M4GA/B		
MN4GA/B	T30 Connector	
4GA/B	Connectors used for T30/T31 wiring method are	
(Master)	used for FA and OA devices. The 25P type is the	
W4GA/B2	connector designated in RS-232-C Standards that apply to personal computer communication functions. Station	
W4GB4	manifolds are set in order from the left with the piping port facing forward regardless of the wiring block position	
MN3S0 MN4S0		╡┚┊┩╪┚╪┚╪┚╞ ╎ ╎
4TB		
4L2-4/ LMF0		Station no. 1st 2nd 3rd n-th station station station station
4SA/B0		
4SA/B1	 (1) The PLC output unit's signal array and valve signal array must match. (2) The working power is 12/24 V/DC dedicated 	No. $1 14 2 15 3 16 4 17 5 18 6 19 7 20 8 21 9 22 10 23 11 24 12 25 13$
4KA/B	(3) The voltage could drop because of simultaneous	
4F	drop for the solenoid is within 10% of the rated voltage.	
PV5G/ CMF		
PV5/ CMF		
3MA/B0		<internal circuit=""></internal>
3PA/B		
P/M/B	T30 connector pin array (example))
NP/NAP/ NVP	*1: Valve No. 1a, 1b, 2a, 2b, etc., express the first and second s Letters a and b refer to solenoid a or solenoid b.	
4F*0E	Annectors used for T30/T31 wiring method are nerally called D-sub connectors. These are commonly ed for FA and OA devices. The 25P type is the nnector designated in RS-232-C Standards that apply personal computer communication functions. Station anifolds are set in order from the left with the piping port cing forward regardless of the wiring block position. autions for connector type T30 The PLC output unit's signal array and valve signal array must match. The working power is 12/24 VDC dedicated. The voltage could drop because of simultaneous energizing or the cable length. Confirm that the voltage drop for the solenoid is within 10% of the rated voltage. 30 connector pin array (example Valve No. 1a, 1b, 2a, 2b, etc., express the first and second	$\left< \begin{array}{c} 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2$
HMV HSV		
2QV 3QV		Pin No. 1 2 3 4 5 6 7 8 9 10 11 12 13 Valve No. 1a 3a 5a 7a 9a 11a 13a 15a 17a 19a 21a 23a COM Pin No. 14 15 16 17 18 19 20 21 22 23 24 25
SKH		Pill No. 14 15 16 17 18 19 20 21 22 23 24 25 Valve No. 2a 4a 6a 8a 10a 12a 14a 16a 18a 20a 22a 24a
PCD/ FS/FD		
Ending		Pin No. 1 2 3 4 5 6 7 8 9 10 11 12 13 Valve No. 1a 2a 3a 4a 5a 6a 7a 8a 9a 10a 11a 12a COM
		Pin No. 14 15 16 17 18 19 20 21 22 23 24 25 Valve No. 1b 2b 3b 4b 5b 6b 7b 8b 9b 10b 11b 12b
	For mix (single and double mixture)	Pin No. 1 2 3 4 5 6 7 8 9 10 11 12 13 Volum No. 1 2 3 4 5 6 7 8 9 10 11 12 13
	(Available up to 24 solenoids)	Valve No. 1a 3a 4a 5a 7a 8a 10a 11b 12b 14a 16a 17a COM Pin No. 14 15 16 17 18 19 20 21 22 23 24 25

Œ

3rd station

<Internal circuit>

(1) (2) (3) (4) (5) (6) (7) (8) (9) (0)

(1)(2)(3)(4)(5)(6)(7)(8)(9)(0)

Technical data 1 Notes when wiring: Flat cable connector type

Flat cable connector type: Wiring method

T50 Connector

The connector used for T50 wiring method complies with MIL Standards (MIL-C-83503). The flat cable pressure welding makes wiring work easy. Pin no. is assigned differently based on the PLC manufacturer, but the function assignment is the same. Layout using connectors and the triangular mark (\checkmark) shown below as a reference. The \checkmark mark is the reference for both the plug and socket. Station manifolds are set in order from the left with the piping port facing forward regardless of the wiring block position.

Precautions for connector type T50

- The PLC output unit's signal array and valve signal array must match. Direct connections with the PLC are limited. Use the dedicated cable for each PLC manufacturer.
- (2) The working power is 12/24 VDC dedicated.
- (3) When connecting the T50 type to a general output unit, use the + terminal (20, 10) of the 20P connector as the + side common, and use the NPN transistor output open collector type for the drive circuit.
- (4) Do not connect this manifold to the input unit as major faults could occur in this device and in peripherals. Connect this manifold to the output unit.
- (5) The voltage could drop because of simultaneous energizing or the cable length. Confirm that the voltage drop for the solenoid is within 10% of the rated voltage.

T50 connector pin array (example)

*: Valve No. 1a, 1b, 2a, 2b, etc., express the first and second stations. Letters a and b refer to solenoid a or solenoid b.

					1							
For single solenoid valve	Pin No.	11	12	13	14	15	16	17	18	19	20	
(Available up to 16 stations)	Valve No.	9a	10a	11a	12a	13a	14a	15a	16a	- power supply	+ power supply	
(Available up to 10 stations)	Pin No.	1	2	3	4	5	6	7	8	9	10	
	Valve No.	1a	2a	3a	4a	5a	6a	7a	8a	- power supply	+ power supply	
	Pin No.	11	12	13	14	15	16	17	18	19	20	
For double solenoid valve	Valve No.				-			\				ſ
(Available up to 8 stations)		5a	5b	6a	6b	7a	7b	8a	8b	 power supply 		
	Pin No.	1	2	3	4	5	6	7	8	9	10	L
	Valve No.	1a	1b	2a	2b	3a	3b	4a	4b	- power supply	+ power supply	
-	Pin No.	11	12	13	14	15	16	17	18	19	20	
For mix (single and double mixture)	Valve No.			4			-					
(Available up to 16 solenoids)		7a	7b	8a	9a	10a	10b	11a		 power supply 		
· · · ·	Pin No.	1	2	3	4	5	6	7	8	9	10	
	Valve No.	1a	2a	3a	3b	4a	4b	5a	6a	- power supply	+ nower supply	

Station no.

Mark

band

No.

1st station

¹3 **┌**⁴ ┌╘ ┌७

3 4 5 6 7 8

2nd station

MN4E0 4GA/B M4GA/B MN4GA/B 4GA/B (Master) W4GA/B2 W4GB4 MN3S0 MN4S0 4TB 4L2-4/ LMF0 4SA/B0 4SA/B1 4KA/B 4F PV5G/ CMF PV5/ CMF 3MA/B0 3PA/B P/M/B NP/NAP/ NVP 4F*0E HMV HSV 2QV 3QV SKH PCD/ FS/FD Ending Reduced wiring block manifold 3, 4 port pilot operated valve

n-th station

⊗ ⊗ tb

сом

999-910-91

MN3E0

Technical data 2 Assembling & disassembling method

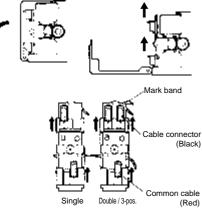
How to disassemble/assemble block manifold

CAUTION: Be sure to turn power OFF and release pressure before increasing or decreasing the manifolds.

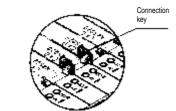
The procedures for changing the valve blocks, replacing the valve blocks when spent, etc., adding the supply/exhaust blocks and changing/increasing the specifications using various pressure supply devices are explained below. Refer to the individual Instruction Manuals for details. Turn OFF power and stop the air pressure source before starting the disassembly work. When the manifold has been disassembled and assembled, if the connection key is not correctly returned between the blocks or if the wiring and end block screws are insufficiently tightened, air could leak or malfunctions could result. Confirm that the connection keys are correctly returned between the blocks and that the blocks are securely fixed onto the DIN rail before supplying the air. CKD recommends using identification marking when disconnecting the A and B port piping.

Replacement of valve block

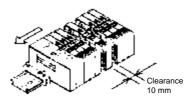
- (1) Loosen the DIN rail set screw on the end block.
- (2) Open the electric cover of valve block to be replaced and blocks on both sides, and remove cable connector a, b from wiring block and common cable connector.



(3) Using a flat-tip screwdriver, etc., lift up the connection key fixing the valve block to be replaced with the block on either side.

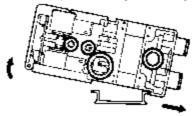


(4) Slide the block to the end block side, and provide a space of 10 mm on each side of the block to be replaced.

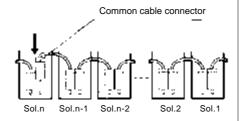


Note that the wiring could break if the valve block is slid out with force.

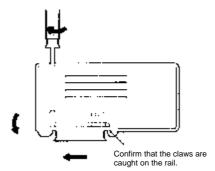
(5) Lift up the block's wiring cover side, and pull toward the piping port side. The block will come off the DIN rail. Open the cover and pass the wiring cable through.



- (6) Replace with a new block. Pass the wiring cable through, and pass the latch on the bottom of the block through the port side and catch it onto the DIN rail.
- (7) Slide all of the blocks to the wiring block side so that there are no spaces between the blocks.
- (8) Push in the connection key to the groove on the top of the block.
- (9) Check the numbers on the mark band, and correctly connect the cable connectors a and b and the common connectors as originally connected.



(10) Confirm that the end block's retainer claw is caught on both sides of the DIN rail, and then tighten the set screw with a screwdriver. Appropriate tightening torque is 1.4 N-m.



Increasing the valve blocks

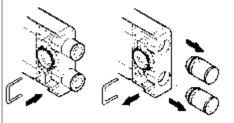
- If planning to expand the stations, designate the expansion cable on the specifications when ordering the manifold. The reserved valve block can also be designated.
- (2) If no reserve is planned, the wiring must be connected from the wiring block. Consult with CKD.

Installation of supply/ exhaust block and partition block

- The blocks are added with the same procedures as replacing the valve blocks.
- (2) Pass the cable from the wiring block and the common cable through the cover while providing slack at the cover slit on the supply/exhaust block or partition block's wiring side.
- (3) If blocks are expanded, the cable length may be too short.

Replacement of cartridge joint

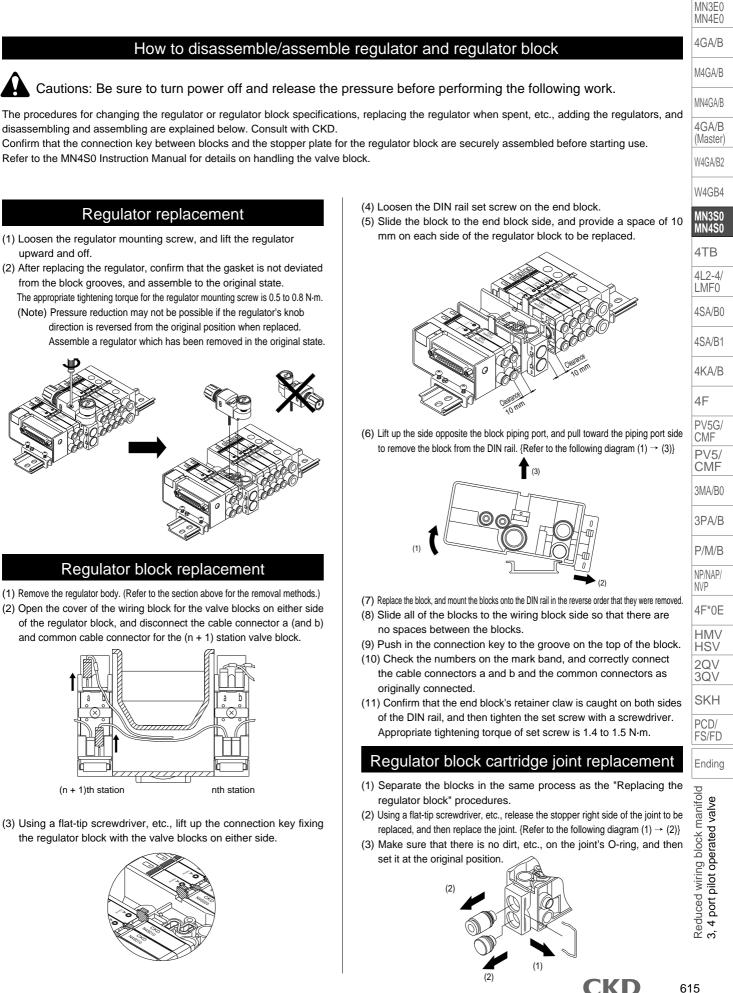
- (1) The blocks are separated with the same procedures as replacing the valve blocks.
- (2) Using a flat-tip screwdriver, etc., release the stopper inserted from the left block port side of the joint to be replaced, and then replace the cartridge joint.
- (3) Make sure that there is no dirt, etc., on the joint's O-ring, and then set it at the original position.



Checking after disassembly and assembly

Check the piping, wiring and confirm that they are correct. Check that the A, B port piping and a, b wiring is connected correctly.

Technical data 3 Assembling & disassembling method



Block manifold specifications

How to fill out block manifold specification sheet MB MN 3 SO 8 O- CX - MX T50 - 7 - 3 DIN rail mount type Solenoid position Port size Manual override Wiring method Valve block station number Voltage																																		
	Ma	nifold n	node	el no	(ex	am	ple)) F	Ref	er t	o p	ag	es	603	8 to	60	9 fc	or p	art	no.	an	d d	eta	ails.										
DIN rail mount type Solenoid position Port size Manual override Wiring method Value block station number Voltage /B (ef) Part name Model no. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 Qty. Wiring block N4S0- T50 0 0 0 0 0 0 0 0 0 1																																		
D	IN rail	mount typ	e	Sole	noid	po	sitior	n F	Port	siz	е	M	anı	ual ov	errio	de V	Viring	met	hod	Valve I	blocks	station	num	ber \	/olt	age	•							
	Part name Model no. 1 2 3 4 3 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 23 Wiring block N4S0 1 0 Q															Qty																		
١	Wiring	block		N4S0	1	0- C		M1	0		0	0	C																					4
,	Valve I	olock			4												0	0																2
ç	Supply a	nd exhaust t	look	N4S0 N4S0	Q			/		0									0															1
	Partitio End ble	on block		N4S0 N4S0		<u>) (</u> N	ote 1)							S					0														1
-		UCK		,	<u> </u>	<u></u>					BI	i ank	ı ing	ı plug		G	ZP4	·B			Sil	ence	ər					SI	LW-H	8				
ľ	Mounti	ng rail	L2 =	¦					Acce	ssories				ı plug		-	ZP6												4T-C/			-		
L							() = 4	- 1)						l plug			ZP8			~ ^									andaro	,	N	ot requ	red (C	hec
	Ρ	reparing	g the	mar	ifold	l sp		,			Jing	γαιί				inulu	מוד נ	10 11	.5061	57,	0, 0	. 01	UL.		. 1	Juan	auol	n pu	osition	110.				
 Preparing the manifold specifications Complete from the left end, with the piping port facing forward. (Indicate the block type selected from the block part components (pages 603 to 609) and the layout instructions.)) Indicate the total number of blocks designated in the required quantity on the right of the table. Indicate the total number of required accessories. Indicate the mounting rail length. (Indicate only when a length other than the standard length is required.) 																																		
	 Indicate the total number of blocks designated in the required quantity on the right of the table. Indicate the total number of required accessories. Indicate the mounting rail length. (Indicate only when a length other than the standard length is required.) Manifold specifications are available for individual series, so fill out corresponding specifications. 																																	
	 Indicate the mounting rail length. (Indicate only when a length other than the standard length is required.) Manifold specifications are available for individual series, so fill out corresponding specifications. MN³₄SO																																	
	 Manifold specifications are available for individual series, so fill out corresponding specifications. MN³₄SO MT³₄SO Page 619 																																	
	 MT³₄SO MN³₄SO (regulator block mounting) Page 620 Calculating the DIN rail length 																																	
Calculating the DIN rail length																																		
	Manifold length L ₁ = (11 x n) + (16 x m) + (6 x \emptyset) + 57 (Wiring method T30/T50 type) = (11 x n) + (16 x m) + (6 x \emptyset) + 107 (Wiring method T10/T11 type)																																	
	Manifold length L ₁ = (11 x n) + (16 x m) + (6 x \emptyset) + 57 (Wiring method T30/T50 type) = (11 x n) + (16 x m) + (6 x \emptyset) + 107 (Wiring method T10/T11 type) = (11 x n) + (16 x m) + (6 x \emptyset) + 128.5 (Wiring method T6' type) = (11 x n) + (16 x m) + (6 x \emptyset) + 128.5 (Wiring method T6' type)																																	
	$= (11 \times n) + (16 \times m) + (6 \times 0) + 128.5 (Wiring method T6^* type)$ $= (11 \times n) + (16 \times m) + (6 \times 0) + 42 (Wiring method Individual wiring type)$ $n: Valve block no. 0: Partition block no. m: Supply/exhaust block no.$ DIN rail length L ₂ = L ₂ ' x 12.5																																	
	n: Valve block no. 0 : Partition block no. m: Supply/exhaust block no. DIN rail length L ₂ = L ₂ ' x 12.5 L ₂ ' = $\frac{L_1 + 40}{12.5}$ c Integer round up decimal point, rail mount pitch L ₃ = L ₂ - 12.5																																	
									Valv	ve blo		//		, aa	-	>											-	-	g the s	statio	ns,	add	the	
			E	는 Wirin	g block	or en	1 block	0			1//		\bigcirc) Sup exh	aust	nd block r wiring lock righ	-	<u>_</u>						With		star	ndar	rd calo				e bl	ocl
						=		19		12	VĿ		9	90	blo	S	pecificat	ions	1			6	- 41-	- 1-6			•		ed for t	wo s	tatic	ons.		
	Ind	stallation	oosit	on Ne		: 1		2	3 4	L				<u>3 x @</u> tition b		The			are al No		This	s als	o ap						lock ri	ght s	pec	ificat	ions	
		alve No.	5031					1	2 3			•••••	••••		···s	erial																		
	F	Referenc	es c	ircuit	diag	grar	n T	⁻ his	is th	e cii	cuit	dia	gra	m fro	m th	ne m	anifo	ld (e	exam	nple)	abo	ve.												
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6		CK	D)																														

Block manifold specifications

How to fill out wiring specifications form

* Not required for standard wiring

Notes of wiring specifications

- (1) With the wiring block and valve block, common wires are treated inside beforehand.
- (2) The connector pin and terminal block No. are set to correspond with the solenoid No. according to the T10, T11, T30 and T50 wiring methods. Refer to the precautions for each wiring method and indicate the numbers. Contact CKD when designating specifications other than the standard wiring specifications.
- (3) If the expansion valve specification might change, the expansion cable must be provided beforehand. (Two expansion valves are provided with the standard wiring.)

Indicate \bigcirc mark for each pin connector or terminal No. in the wiring Specifications field. (Refer to example below.)

Note that the supply/exhaust block must be installed on the end block side to ensure space for storing the expansion cables. If 5 or more cable wires need to be installed, an extra supply/exhaust block must be provided. If the single type might be changed to a double type, indicate the valve numbers a and b, circle b, and circle the terminal No. In this case, the supply/exhaust block does not need to be expanded even if there are more than 5 cables.

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Example (Completed based on the previous page's manifold specifications.)

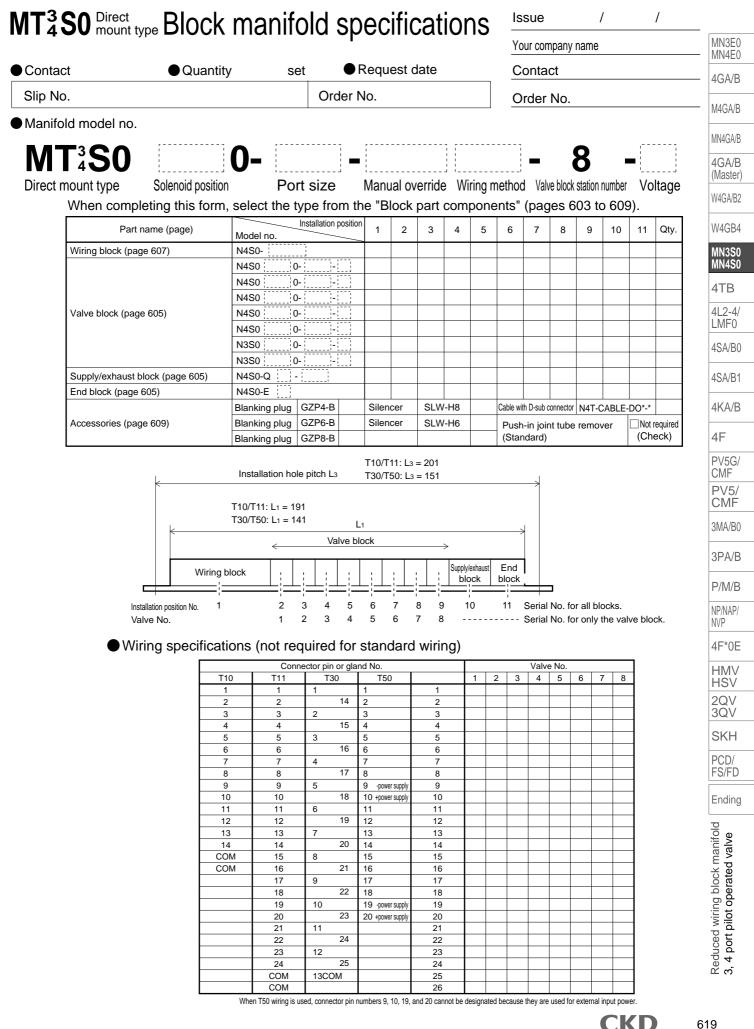
With standard wiring, two expansion cables are provided.

MN3E0 MN4E0

MN³SO ^{DIN rail} Block manifold specifications ^{Issue} / /

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MN4GA/B	MN		50	r																			_						-	 _				
4GA/B (Master)	DIN rail r			Solenoid positi	on			P	ort	si	ze	L	i	Ма	nua	al o'	ver	ride	 9	Wi	ing	me	tho	d	V	alve	bloc	k sta	tion r	numb	Jer	V	olta	ae
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4SA/B0	Valve block (Page 605)	N4S0	0-	- [
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4F	Supply and exhaust bloc	N4S0-Q	<u> </u>																														\perp	
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PV5/	Partition block	N4S0-S																												\downarrow	_	_		
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3MA/B0	End block	N4S0-E	<u></u>		_																		_						_	_	\perp	_	_	
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When T50 wiring is used, connector pin numbers 9, 10, 19, and 20 cannot be designated because they are used for external input power.



Manifold specification sheet

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(Notes)

Technical confirmation No.

(1) Indicate the manual override and wiring method with each block model.

24 COM COM

(2) When T50 wiring is used, connector pin numbers 9, 10, 19, and 20 cannot be designated because they are used for external input power. (3) Any specifications which do not have a Technical Confirmation Stamp are invalid. Always obtain the Technical Confirmation before placing the order.

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Approval Inspector Contact

