

CC-Link IE Field compatible
Serial transmission slave unit
M4G/MN4G-T8 Series



**Solenoid valves now supporting
Gigabit IoT.**



CC-Link *IE* Field Compatible

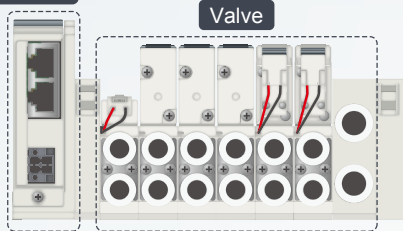
4G Series links directly to

Information from production sites monitored through valves



Information monitored/set by slave stations (units)

Slave unit



Valve

Unit power ON time

Unit power ON threshold setting

Valve ON count

Threshold setting for the valve ON count

Applications

- Equipment operation time management and component replacement guidelines can be confirmed.
- Enables preventive maintenance by confirming the operational cycles of actuators such as cylinders, etc., according to threshold values.

Easy-to-use interface

Separate power supply

Unit power supply and valve power supply are separated to enable separate power ON, so that the valve power supply can be turned OFF with the unit power supply ON.

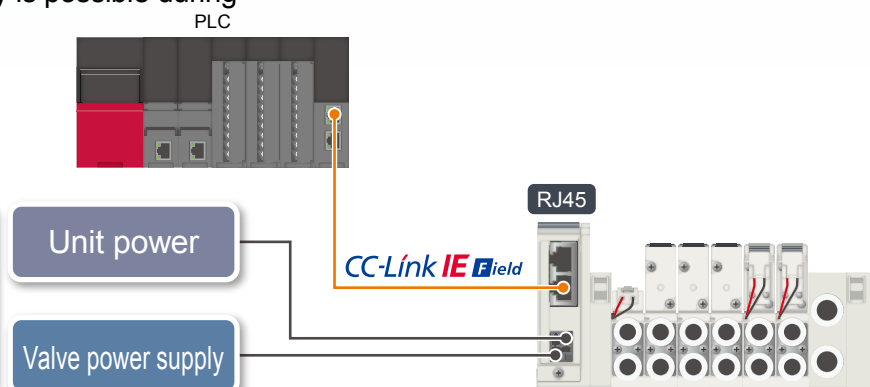
Rapid equipment recovery is possible during valve replacement, etc.

RJ45 connector

RJ45 connector adopted.

General purpose equipment is convenient for acquiring cables, installation, etc.

Automotive electronics assembly equipment, etc.

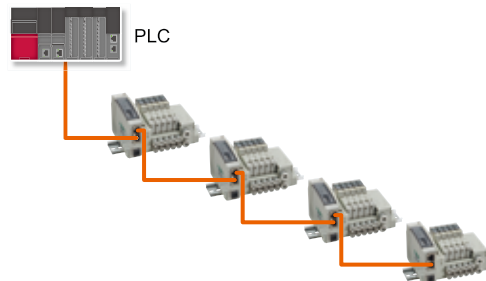


CC-Link IE Field

Plentiful wiring formats

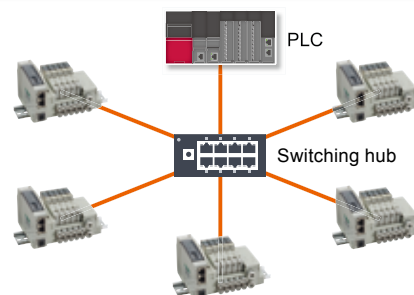
Line wiring

This connection format enables all components to be connected on a single line. The simple structure enables shortened total wiring length.



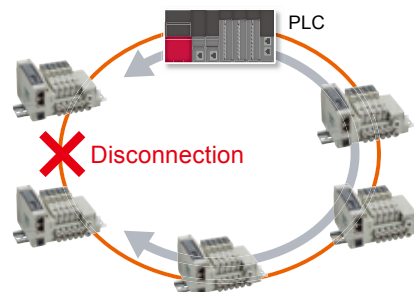
Star wiring

This connection format connects the components in a radial shape with the Ethernet switch as the hub. Even if communication errors arise in some components, communication with the others can be maintained.



Ring wiring

Even if one location is disconnected, reverse communication enables use as a doubled circuit preventing communication errors as well.



*Line and star wiring can be combined.

Ring wiring cannot be combined with other wiring formats.

Fast link-up compatible

Network connection is faster than normal when reconnecting CC-Link IE Field communication from disconnected status.

In systems using tool changers, etc., reducing startup time will improve productivity.

Time from power supply ON to communication connection

10s



1s

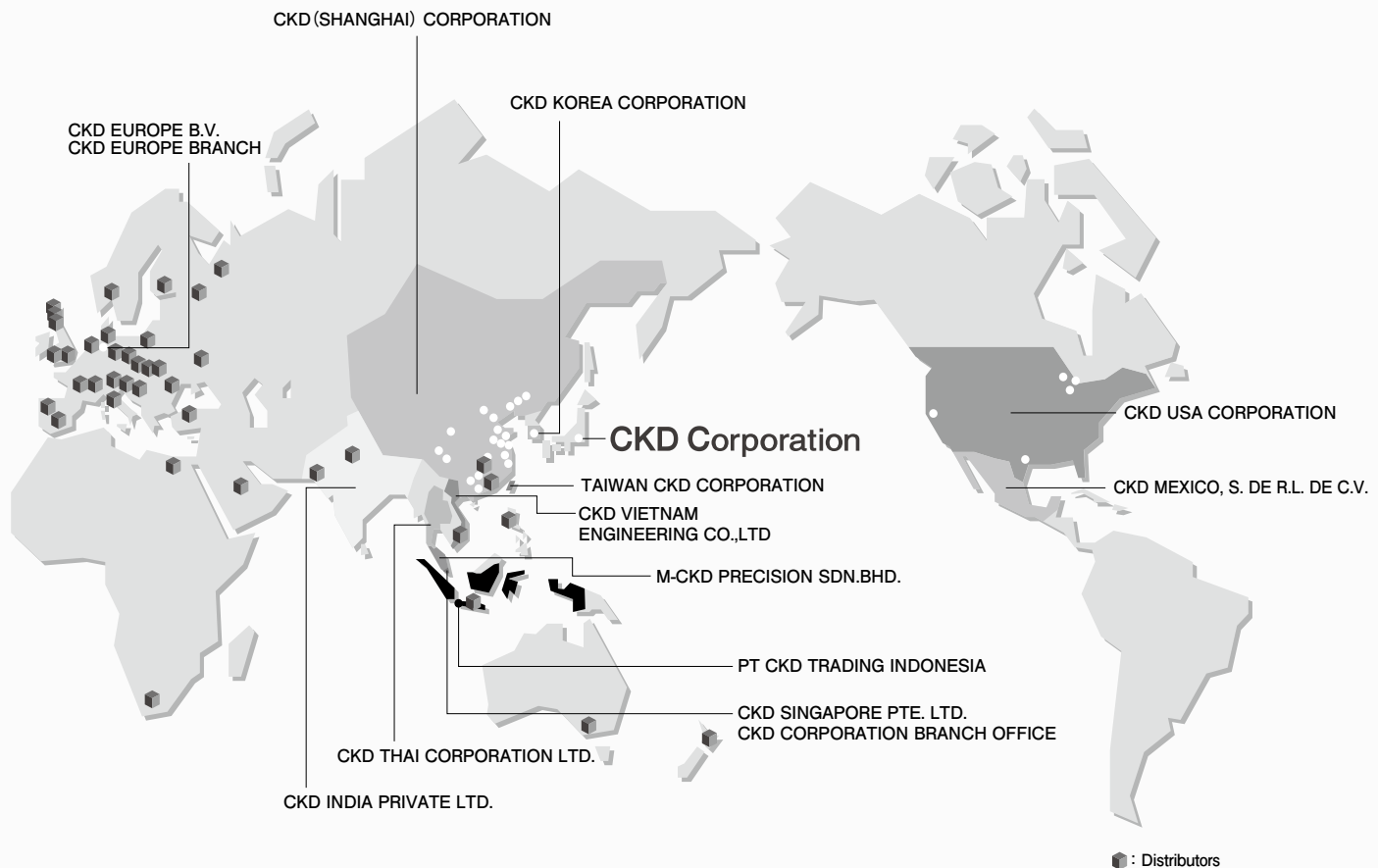
Communication connection time with fast link-up function ON

Certifications obtained

CE marking compatible.

Can be shipped to the European Economic Area.

CE RoHS



CKD Corporation

Website <https://www.ckd.co.jp/>

ASIA

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M4G/MN4G-T8 Series

Specifications Refer to the Pneumatic Valves Catalog (No.CB-023SA) as well.

Item		T8EF1	T8EF2	T8EFP1	T8EFP2
Communication protocol		CC-Link IE Field			
Power supply voltage	Unit side	24 VDC $\pm 10\%$			
	Valve side	24 VDC +10%, -5%			
Current consumption	Unit side	140 mA or less			
	Valve side	15 mA or less (excluding load current)			
Output		NPN output		PNP output	
No. of I/O points		16 points	32 points	16 points	32 points
LED display	Power supply	PW, PW (V)			
	Communication	L ERR, D Link, RUN/ERR, INFO, LINK/ACT (IN, OUT)			
Degree of protection		IP30 (IP20 without connector connected)			
Output setting during communication error		Hold (hold all points final output) / Clear (clear all points output) *Single-point output setting of address setting (station No.) is possible with software setting			
Address setting	Station No.	Switch setting, software setting (set values: 1 to 120)			
	Network address	Switch setting, software setting (set values: 1 to 239)			

Individual specifications

● Metal base manifold

Item		M3G*1/M4G*1		M3G*2/M4G*2		M3G*3/M4G*3	
		Direct Mount	DIN rail Mount	Direct Mount	DIN rail Mount	Direct Mount	DIN rail Mount
Max. station No.	Standard Internal pilot	20 stations	16 stations	20 stations	16 stations	16 stations	
	External pilot	12 stations					
Max. No. of solenoids		T8EF*1: 16 points T8EF*2: 32 points					

● Block manifold

Item		MN3G*1/MN4G*1		MN3G*2/MN4G*2	
		T8EF*1	T8EF*2	T8EF*1	T8EF*2
Max. station No.	Standard wiring	16 stations	24 stations	16 stations	20 stations
	Double wiring	8 stations	16 stations	8 stations	16 stations
Max. No. of solenoids		16 points	32 points	16 points	32 points

Compatibility

● Metal base manifold

M3/4GA1, M3/4GB1, M3/4GD1, M3/4GE1

M3/4GA2, M3/4GB2, M3/4GD2, M3/4GE2

M3/4GA3, M4GB3, M3/4GD3, M4GE3

● Block manifold

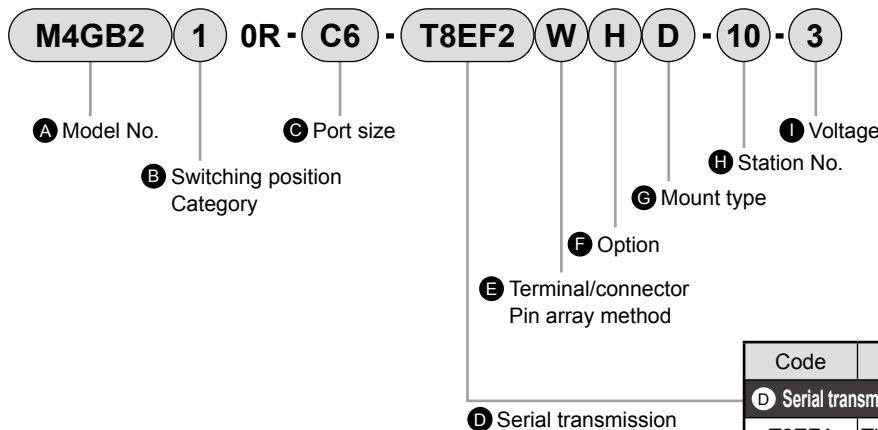
MN3/4GA1, MN3/4GB1, MN3/4GD1, MN3/4GE1

MN3/4GA2, MN3/4GB2, MN3/4GD2, MN3/4GE2

⚠ Be sure to read the safety precautions in "Pneumatic Valves" (Catalog No. CB-023SA) before use.

How to order

● Metal base manifold equipped model No. [Example]



*Model Nos.

Only models with serial transmission slave unit (T8EF*) newly added are shown in this catalog. Refer to "Pneumatic Valves (Catalog No. CB-023SA)" for details (specifications, model No., etc.) on the M4G Series.

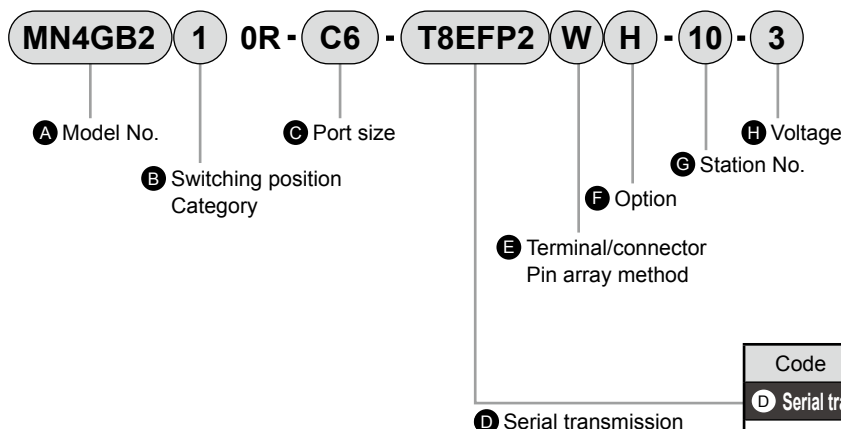
Code	Description
D Serial transmission slave unit (lamp/surge suppressor provided as standard)	
T8EF1	Thin type CC-Link IE Field 16 points (NPN output)
T8EF2	Thin type CC-Link IE Field 32 points (NPN output)
T8EFP1	Thin type CC-Link IE Field 16 points (PNP output)
T8EFP2	Thin type CC-Link IE Field 32 points (PNP output)

[Example of model No.]

M4GB210R-C6-T8EF2WHD-10-3

- A** Model No. : 5-port valve, base piping
- B** Solenoid position : 2-position single
- C** Port size : ø6 push-in fitting
- D** Serial transmission : Thin type CC-Link IE Field 32 points (NPN output)
- E** Terminal/connector pin array : Double wiring
- F** Option : With exhaust check valve
- G** Mount type : DIN rail mount
- H** Station No. : 10 stations
- I** Voltage : 24 VDC

● Block manifold equipped model No. [Example]



*Model Nos.

Only models with serial transmission slave unit (T8EF*) newly added are shown in this catalog. Refer to "Pneumatic Valves (Catalog No. CB-023SA)" for details (specifications, model No., etc.) on the MN4G Series.

Code	Description
D Serial transmission slave unit (lamp/surge suppressor provided as standard)	
T8EF1	Thin type CC-Link IE Field 16 points (NPN output)
T8EF2	Thin type CC-Link IE Field 32 points (NPN output)
T8EFP1	Thin type CC-Link IE Field 16 points (PNP output)
T8EFP2	Thin type CC-Link IE Field 32 points (PNP output)

[Example of model No.]

MN4GB210R-C6-T8EFP2WH-10-3

- A** Model No. : 5-port valve, base piping
- B** Solenoid position : 2-position single
- C** Port size : ø6 push-in fitting
- D** Serial transmission : Thin type CC-Link IE Field 32 points (PNP output)
- E** Terminal/connector pin array : Double wiring
- F** Option : With exhaust check valve
- G** Station No. : 10 stations
- H** Voltage : 24 VDC

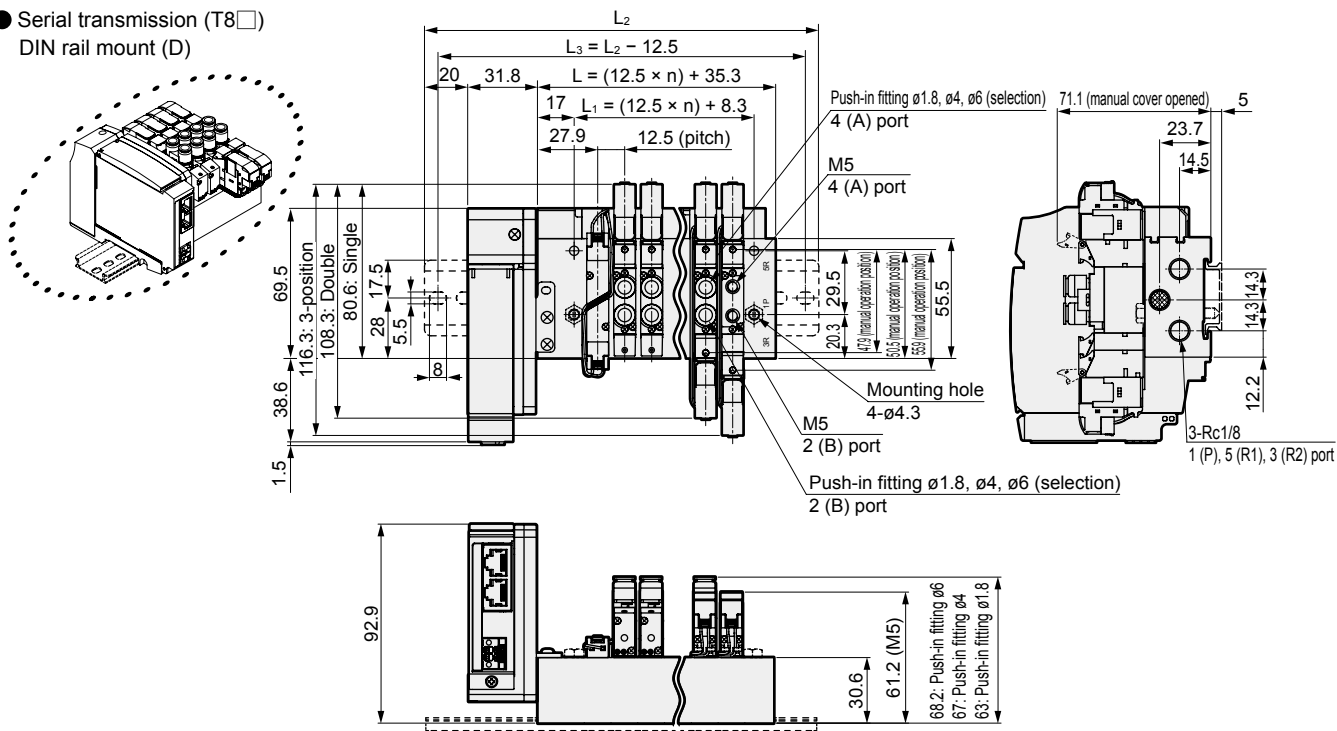
M4GA1-T8* Series

Reduced wiring manifold; body piping; serial transmission

Dimensions

M4GA1

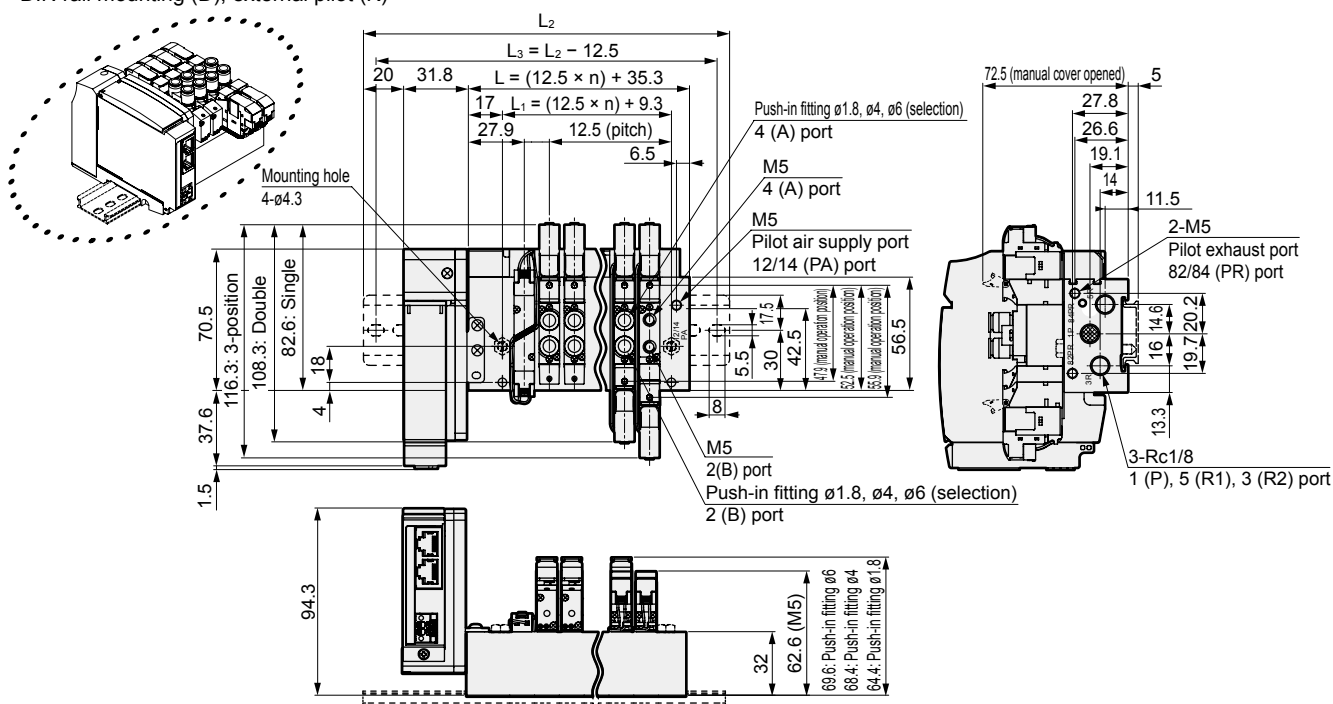
- Serial transmission (T8□)
- DIN rail mount (D)



Stn.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	60.3	72.8	85.3	97.8	110.3	122.8	135.3	147.8	160.3	172.8	185.3	197.8	210.3	222.8	235.3	247.8	260.3	272.8	285.3
L ₁	33.3	45.8	58.3	70.8	83.3	95.8	108.3	120.8	133.3	145.8	158.3	170.8	183.3	195.8	208.3	220.8	233.3	245.8	258.3
L ₂	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5				
L ₃	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0				

M4GA1

- Serial transmission (T8□)
- DIN rail mounting (D); external pilot (K)

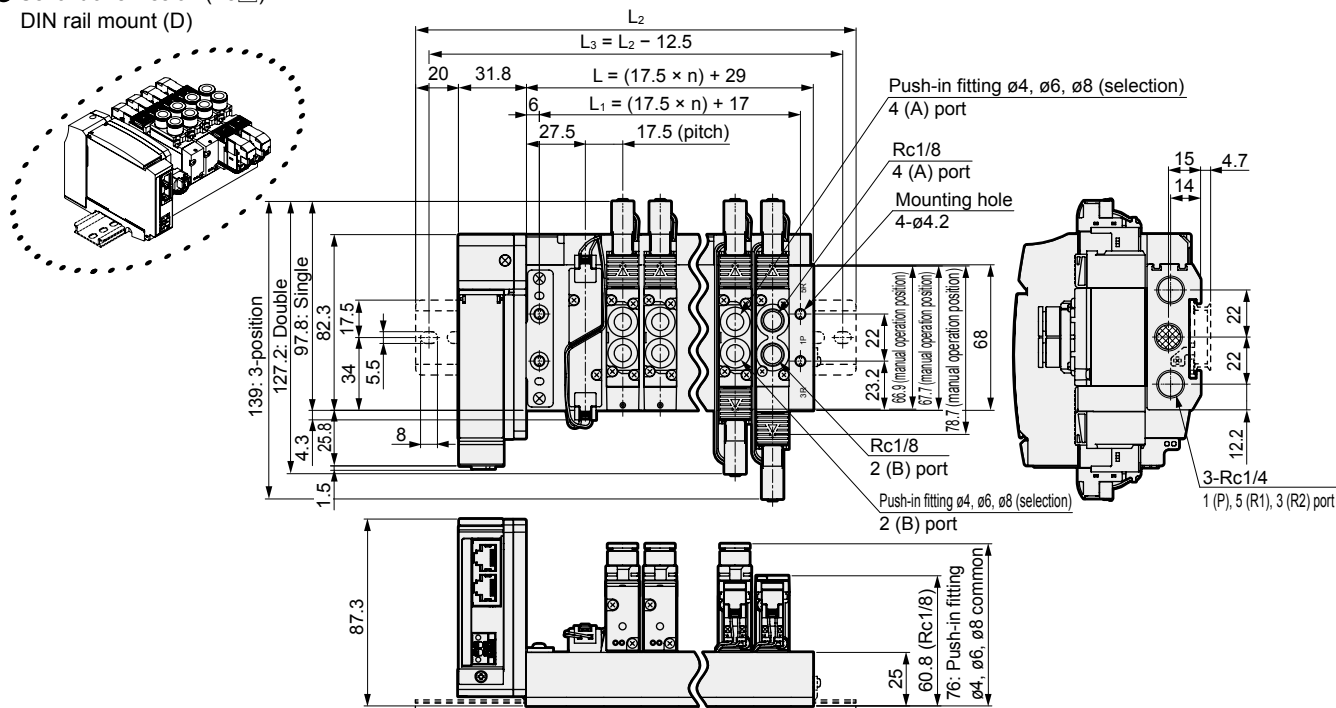


Stn.	2	3	4	5	6	7	8	9	10	11	12
L	60.3	72.8	85.3	97.8	110.3	122.8	135.3	147.8	160.3	172.8	185.3
L ₁	34.3	46.8	59.3	71.8	84.3	96.8	109.3	121.8	134.3	146.8	159.3
L ₂	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5
L ₃	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0

Dimensions

M4GA2

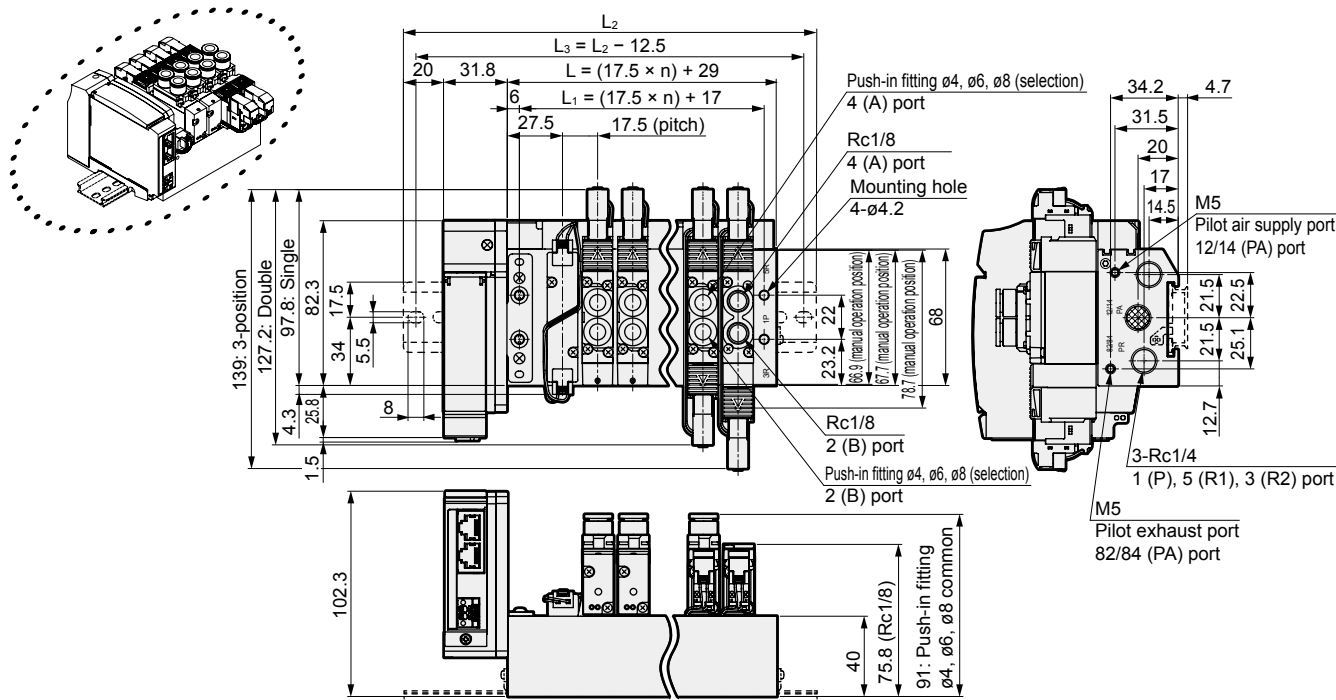
- Serial transmission (T8□)
- DIN rail mount (D)



Stn.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	64.0	81.5	99.0	116.5	134.0	151.5	169.0	186.5	204.0	221.5	239.0	256.5	274.0	291.5	309.0	326.5	344.0	361.5	379.0
L ₁	52.0	69.5	87.0	104.5	122.0	139.5	157.0	174.5	192.0	209.5	227.0	244.5	262.0	279.5	297.0	314.5	332.0	349.5	367.0
L ₂	137.5	162.5	175.0	200.0	212.5	225.0	250.0	262.5	287.5	300.0	312.5	337.5	350.0	375.0	387.5				
L ₃	125.0	150.0	162.5	187.5	200.0	212.5	237.5	250.0	275.0	287.5	300.0	325.0	337.5	362.5	375.0				

M4GA2

- Serial transmission (T8□)
- DIN rail mounting (D); external pilot (K)

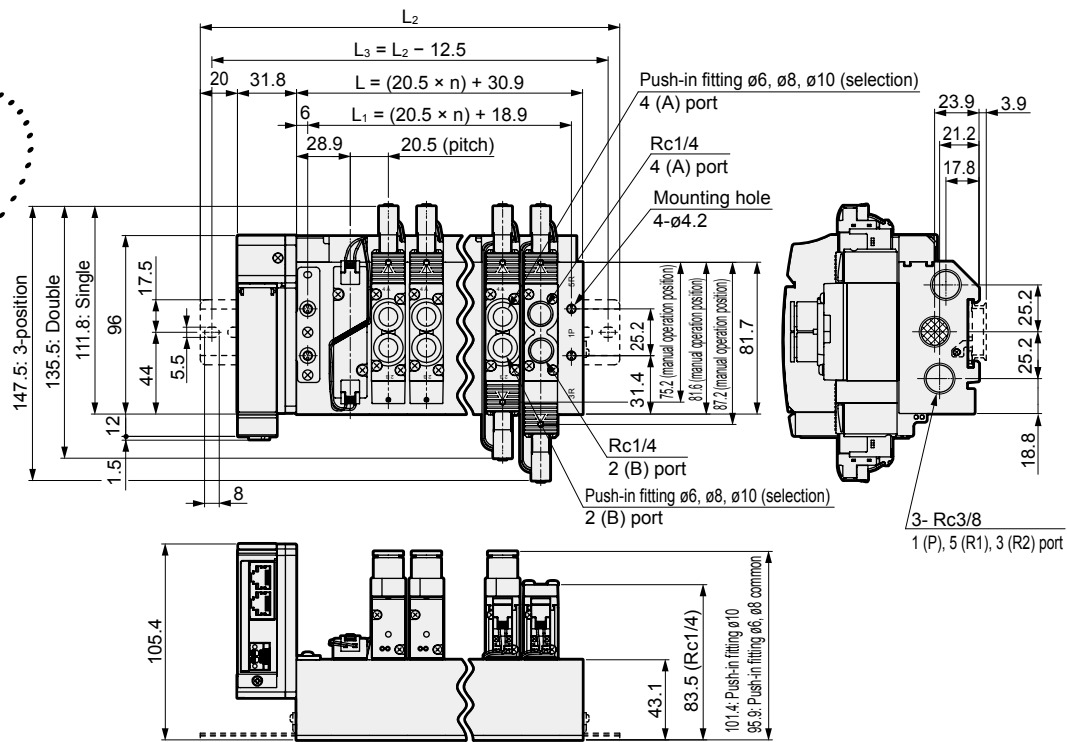


Stn.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	64.0	81.5	99.0	116.5	134.0	151.5	169.0	186.5	204.0	221.5	239.0	256.5	274.0	291.5	309.0	326.5	344.0	361.5	379.0
L ₁	52.0	69.5	87.0	104.5	122.0	139.5	157.0	174.5	192.0	209.5	227.0	244.5	262.0	279.5	297.0	314.5	332.0	349.5	367.0
L ₂	137.5	162.5	175.0	200.0	212.5	225.0	250.0	262.5	287.5	300.0	312.5	337.5	350.0	375.0	387.5				
L ₃	125.0	150.0	162.5	187.5	200.0	212.5	237.5	250.0	275.0	287.5	300.0	325.0	337.5	362.5	375.0				

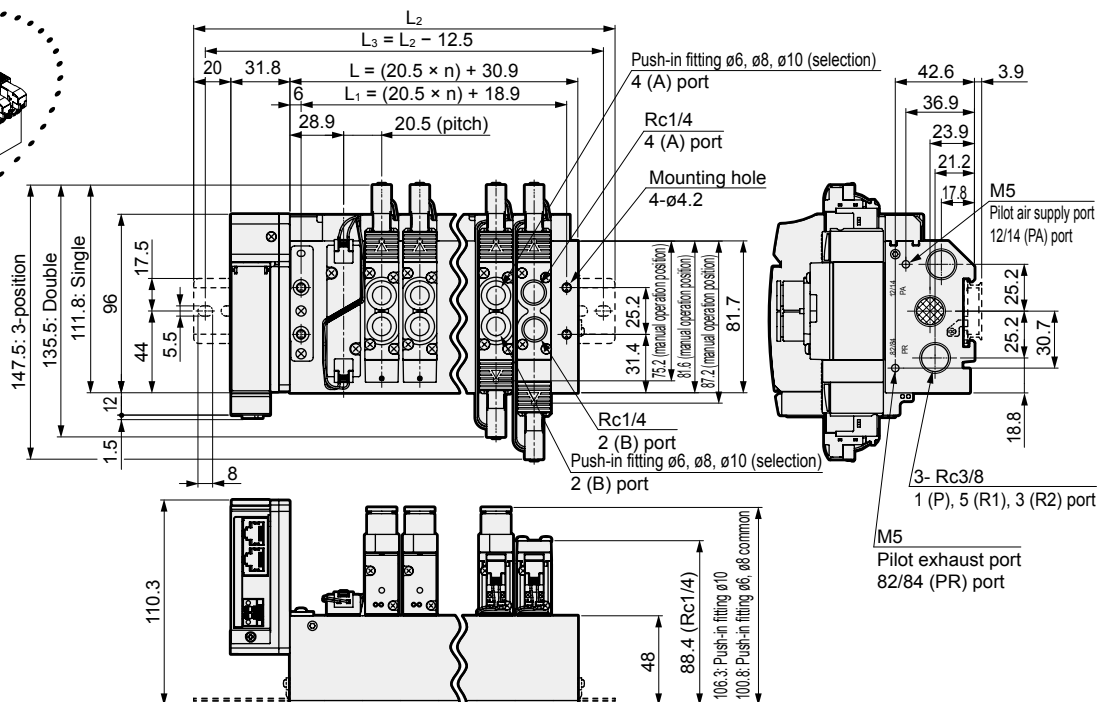
Reduced wiring manifold; body piping; serial transmission

M4GA3

-
- A detailed diagram of a 16-pin D-sub connector. The connector has a rectangular body with a D-shaped shield on the front. A 16-pin D-sub connector is shown inserted into the back. The pins are arranged in two rows of eight. The shield is connected to ground.



Stn.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	71.9	92.4	112.9	133.4	153.9	174.4	194.9	215.4	235.9	256.4	276.9	297.4	317.9	338.4	358.9
L ₁	59.9	80.4	100.9	121.4	141.9	162.4	182.9	203.4	223.9	244.4	264.9	285.4	305.9	326.4	346.9
L ₂	150.0	175.0	187.5	212.5	237.5	250.0	275.0	287.5	312.5	337.5	350.0	375.0	400.0	412.5	437.5
L ₃	137.5	162.5	175.0	200.0	225.0	237.5	262.5	275.0	300.0	325.0	337.5	362.5	387.5	400.0	425.0



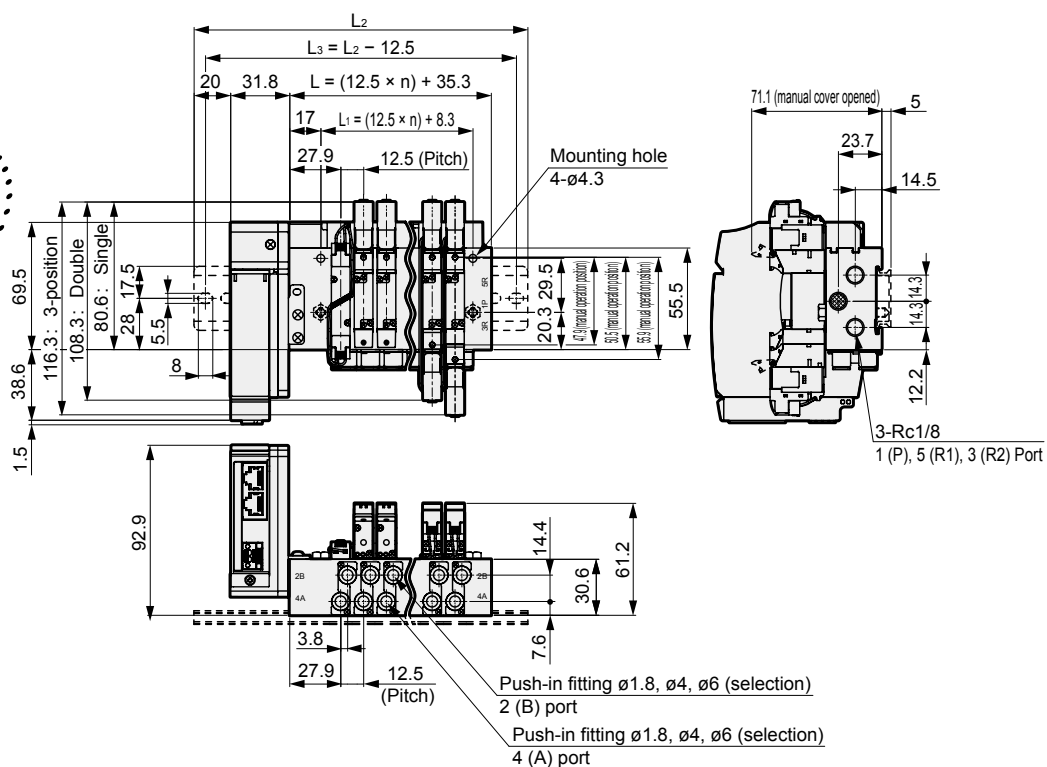
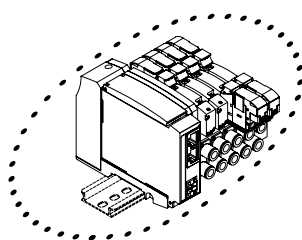
Stn.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	71.9	92.4	112.9	133.4	153.9	174.4	194.9	215.4	235.9	256.4	276.9	297.4	317.9	338.4	358.9
L ₁	59.9	80.4	100.9	121.4	141.9	162.4	182.9	203.4	223.9	244.4	264.9	285.4	305.9	326.4	346.9
L ₂	150.0	175.0	187.5	212.5	237.5	250.0	275.0	287.5	312.5	337.5	350.0	375.0	400.0	412.5	437.5
L ₃	137.5	162.5	175.0	200.0	225.0	237.5	262.5	275.0	300.0	325.0	337.5	362.5	387.5	400.0	425.0

Dimensions



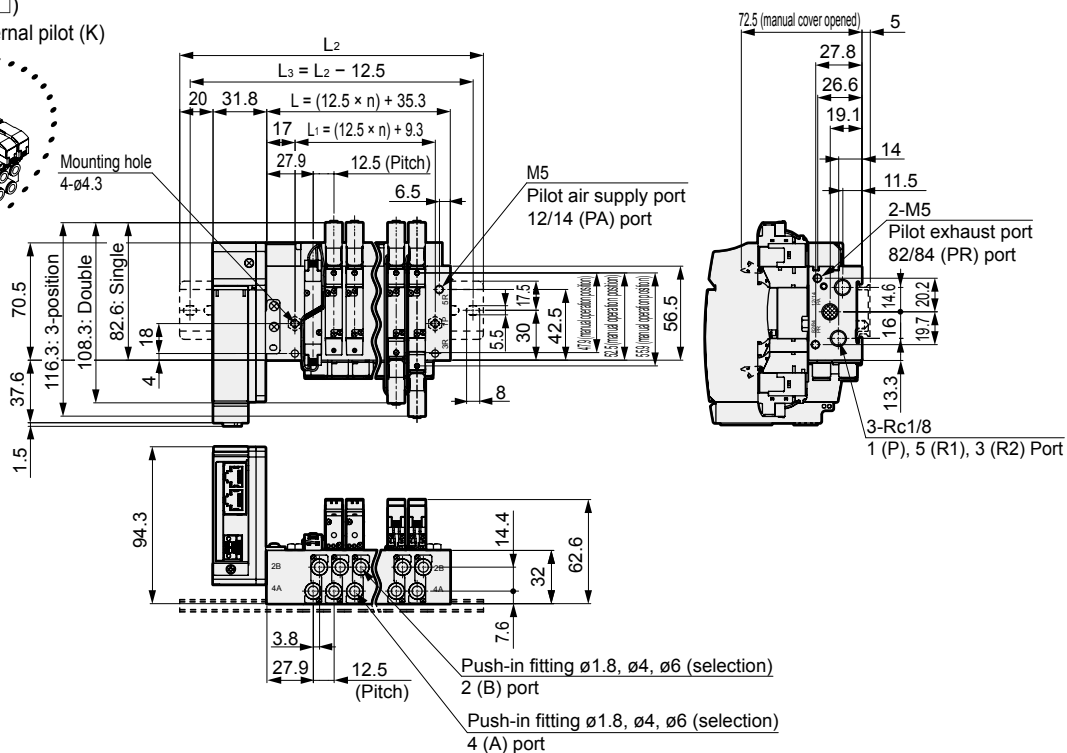
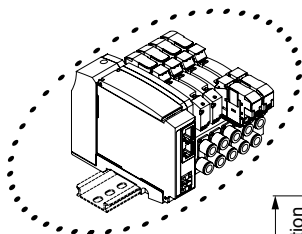
M4GB1

- Serial transmission (T8□)
DIN rail mount (D)



Stn.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	60.3	72.8	85.3	97.8	110.3	122.8	135.3	147.8	160.3	172.8	185.3	197.8	210.3	222.8	235.3	247.8	260.3	272.8	285.3
L ₁	33.3	45.8	58.3	70.8	83.3	95.8	108.3	120.8	133.3	145.8	158.3	170.8	183.3	195.8	208.3	220.8	233.3	245.8	258.3
L ₂	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5				
L ₃	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0				

- Serial transmission (T8□)
DIN rail mounting (D); external pilot (K)



Stn.	2	3	4	5	6	7	8	9	10	11	12
L	60.3	72.8	85.3	97.8	110.3	122.8	135.3	147.8	160.3	172.8	185.3
L ₁	34.3	46.8	59.3	71.8	84.3	96.8	109.3	121.8	134.3	146.8	159.3
L ₂	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5
L ₃	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0

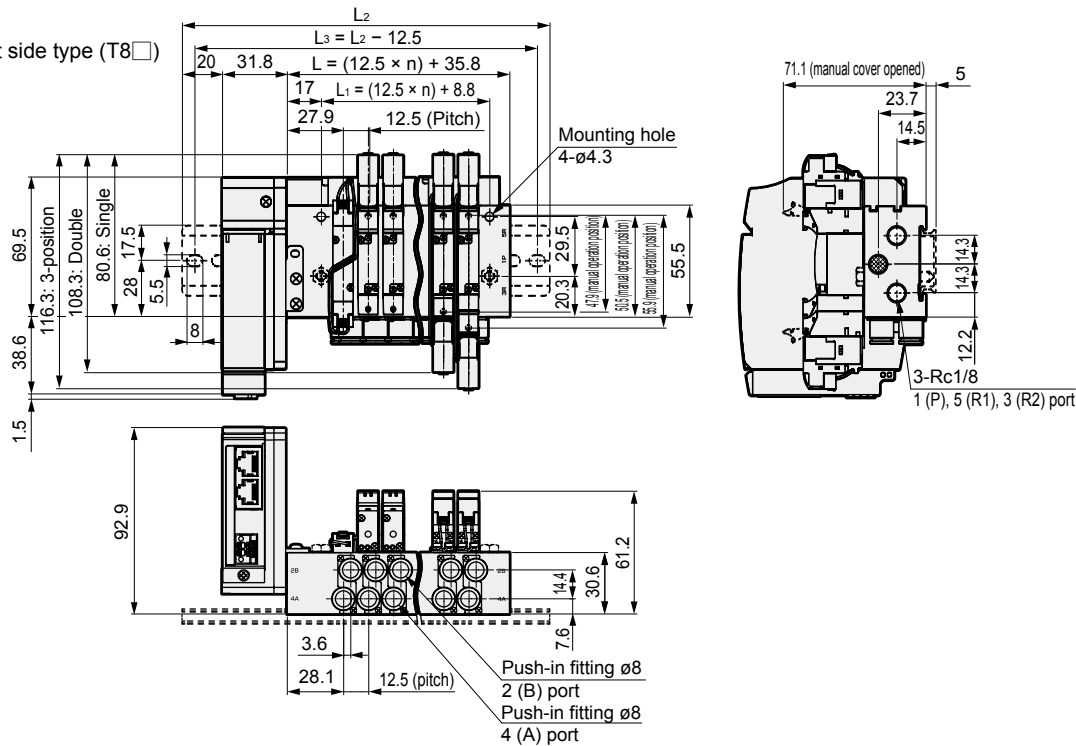
M4GB1-T8* Series

Reduced wiring manifold; base piping; serial transmission

Dimensions

M4GB1-C8

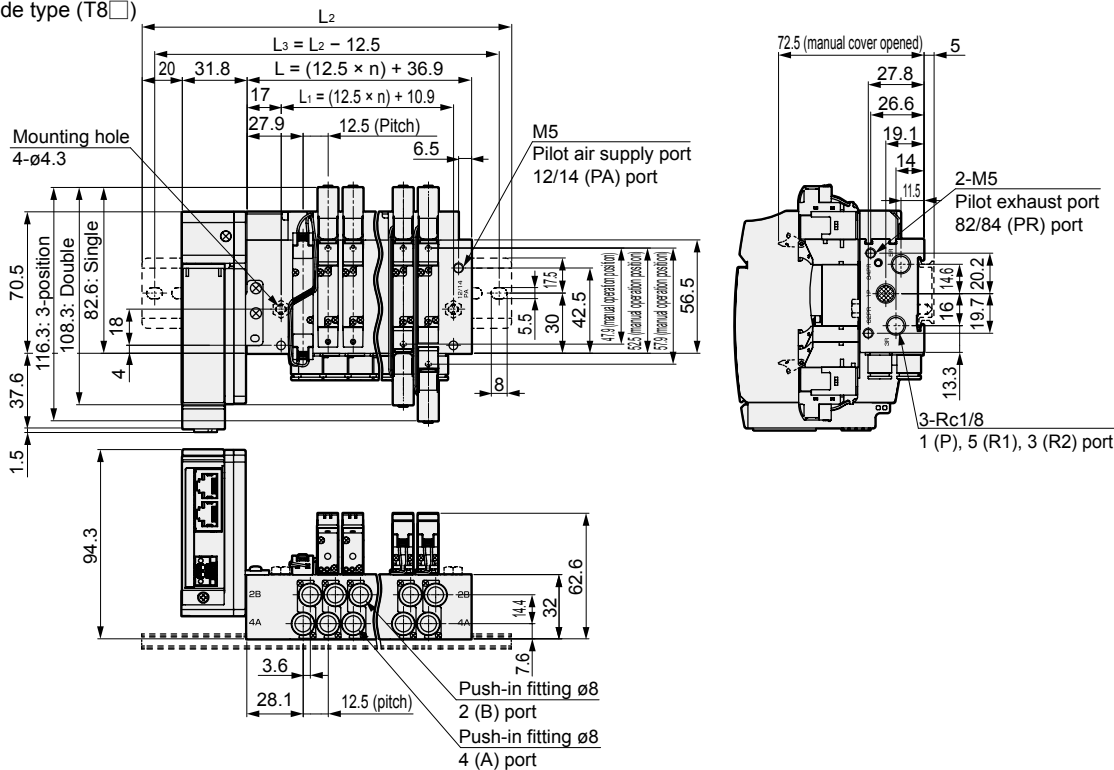
● Reduced wiring left side type (T8□)



Stn.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	60.8	73.3	85.8	98.3	110.8	123.3	135.8	148.3	160.8	173.3	185.8	198.3	210.8	223.3	235.8	248.3	260.8	273.3	285.8
L ₁	33.8	46.3	58.8	71.3	83.8	96.3	108.8	121.3	133.8	146.3	158.8	171.3	183.8	196.3	208.8	221.3	233.8	246.3	258.8
L ₂	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5				
L ₃	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0				

● Reduced wiring left side type (T8□)

External pilot (K)

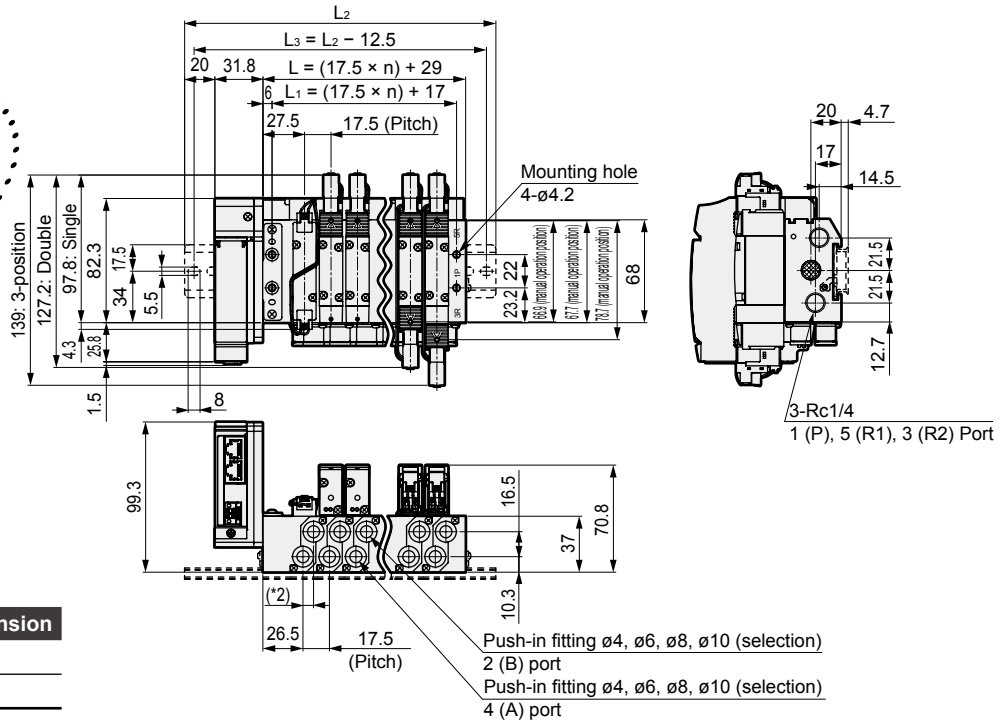
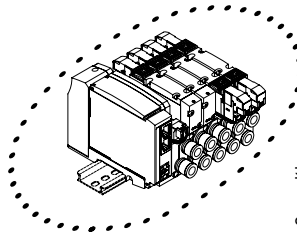


Stn.	2	3	4	5	6	7	8	9	10	11	12
L	61.9	74.4	86.9	99.4	111.9	124.4	136.9	149.4	161.9	174.4	186.9
L ₁	35.9	48.4	60.9	73.4	85.9	98.4	110.9	123.4	135.9	148.4	160.9
L ₂	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5
L ₃	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0

Dimensions

M4GB2

- Serial transmission (T8□)
- DIN rail mounting (D)

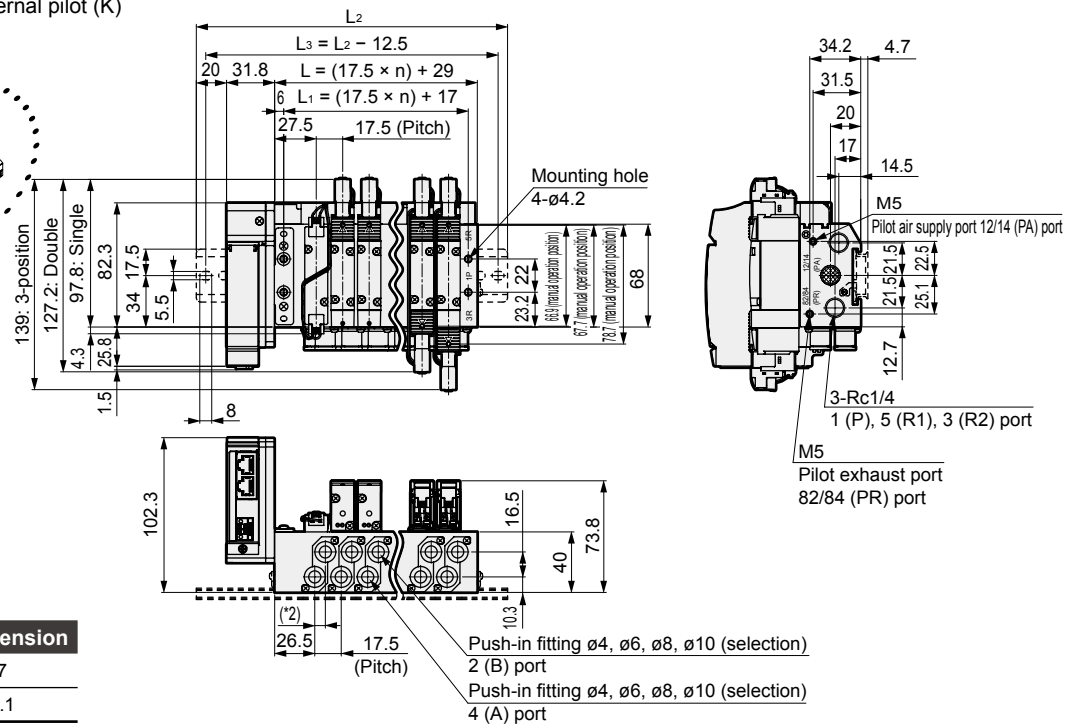
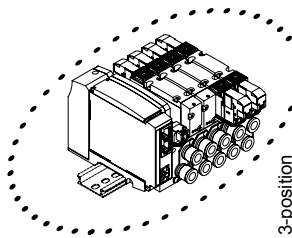


*2

A/B port size	*2 dimension
ø4, ø6, ø8	7
ø10	8.1

Stn.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	64.0	81.5	99.0	116.5	134.0	151.5	169.0	186.5	204.0	221.5	239.0	256.5	274.0	291.5	309.0	326.5	344.0	361.5	379.0
L ₁	52.0	69.5	87.0	104.5	122.0	139.5	157.0	174.5	192.0	209.5	227.0	244.5	262.0	279.5	297.0	314.5	332.0	349.5	367.0
L ₂	137.5	162.5	175.0	200.0	212.5	225.0	250.0	262.5	287.5	300.0	312.5	337.5	350.0	375.0	387.5				
L ₃	125.0	150.0	162.5	187.5	200.0	212.5	237.5	250.0	275.0	287.5	300.0	325.0	337.5	362.5	375.0				

- Serial transmission (T8□)
- DIN rail mounting (D); external pilot (K)



*2

A/B port size	*2 dimension
ø4, ø6, ø8	7
ø10	8.1

Stn.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	64.0	81.5	99.0	116.5	134.0	151.5	169.0	186.5	204.0	221.5	239.0	256.5	274.0	291.5	309.0	326.5	344.0	361.5	379.0
L ₁	52.0	69.5	87.0	104.5	122.0	139.5	157.0	174.5	192.0	209.5	227.0	244.5	262.0	279.5	297.0	314.5	332.0	349.5	367.0
L ₂	137.5	162.5	175.0	200.0	212.5	225.0	250.0	262.5	287.5	300.0	312.5	337.5	350.0	375.0	387.5				
L ₃	125.0	150.0	162.5	187.5	200.0	212.5	237.5	250.0	275.0	287.5	300.0	325.0	337.5	362.5	375.0				

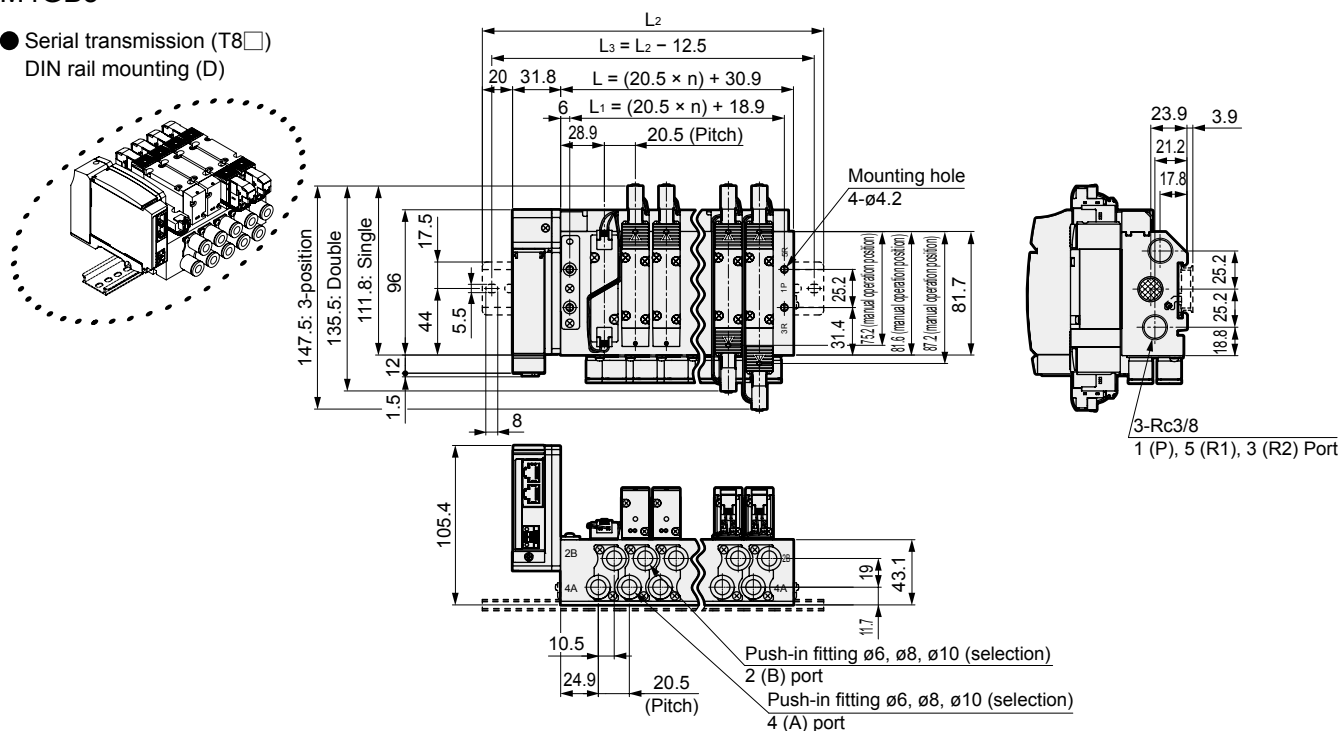
M4GB3-T8* Series

Reduced wiring manifold; base piping; serial transmission

Dimensions

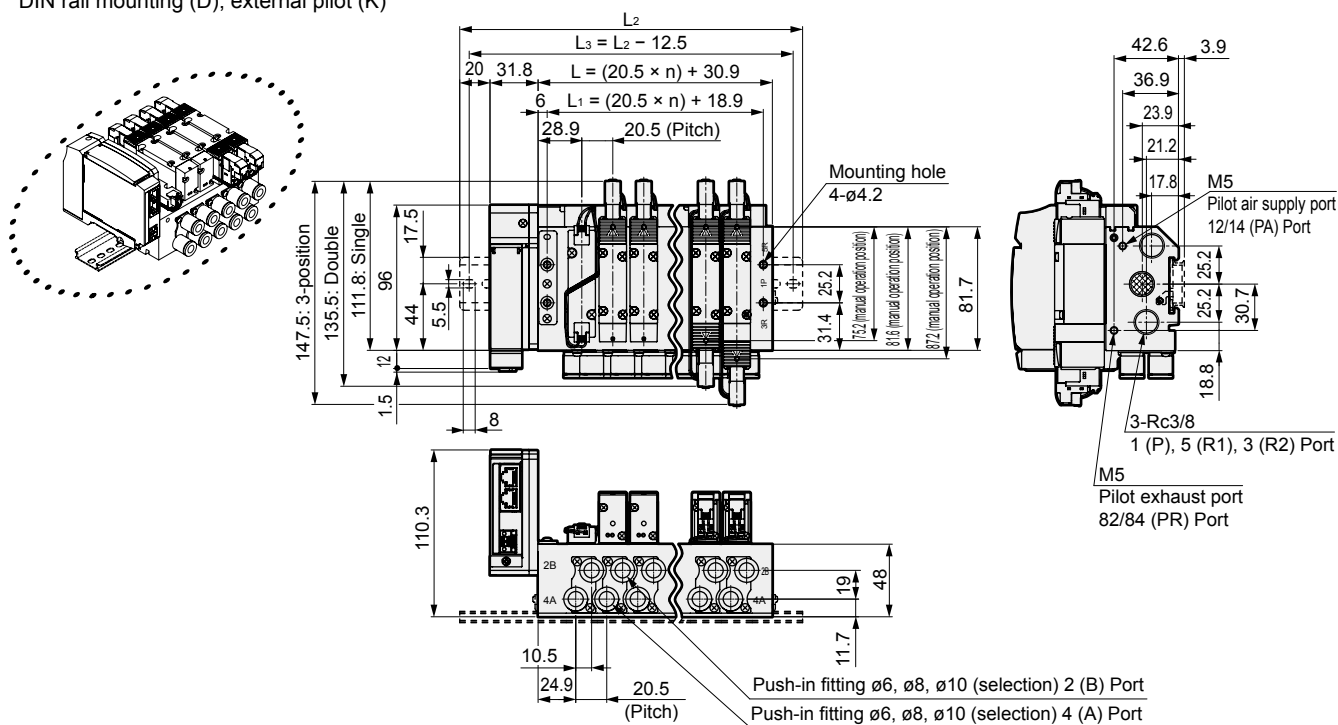
M4GB3

- Serial transmission (T8□)
DIN rail mounting (D)



Stn.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	71.9	92.4	112.9	133.4	153.9	174.4	194.9	215.4	235.9	256.4	276.9	297.4	317.9	338.4	358.9
L ₁	59.9	80.4	100.9	121.4	141.9	162.4	182.9	203.4	223.9	244.4	264.9	285.4	305.9	326.4	346.9
L ₂	150.0	175.0	187.5	212.5	237.5	250.0	275.0	287.5	312.5	337.5	350.0	375.0	400.0	412.5	437.5
L ₃	137.5	162.5	175.0	200.0	225.0	237.5	262.5	275.0	300.0	325.0	337.5	362.5	387.5	400.0	425.0

- Serial transmission (T8□)
DIN rail mounting (D); external pilot (K)



Stn.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	71.9	92.4	112.9	133.4	153.9	174.4	194.9	215.4	235.9	256.4	276.9	297.4	317.9	338.4	358.9
L ₁	59.9	80.4	100.9	121.4	141.9	162.4	182.9	203.4	223.9	244.4	264.9	285.4	305.9	326.4	346.9
L ₂	150.0	175.0	187.5	212.5	237.5	250.0	275.0	287.5	312.5	337.5	350.0	375.0	400.0	412.5	437.5
L ₃	137.5	162.5	175.0	200.0	225.0	237.5	262.5	275.0	300.0	325.0	337.5	362.5	387.5	400.0	425.0

MN4GA1 2-T8* Series

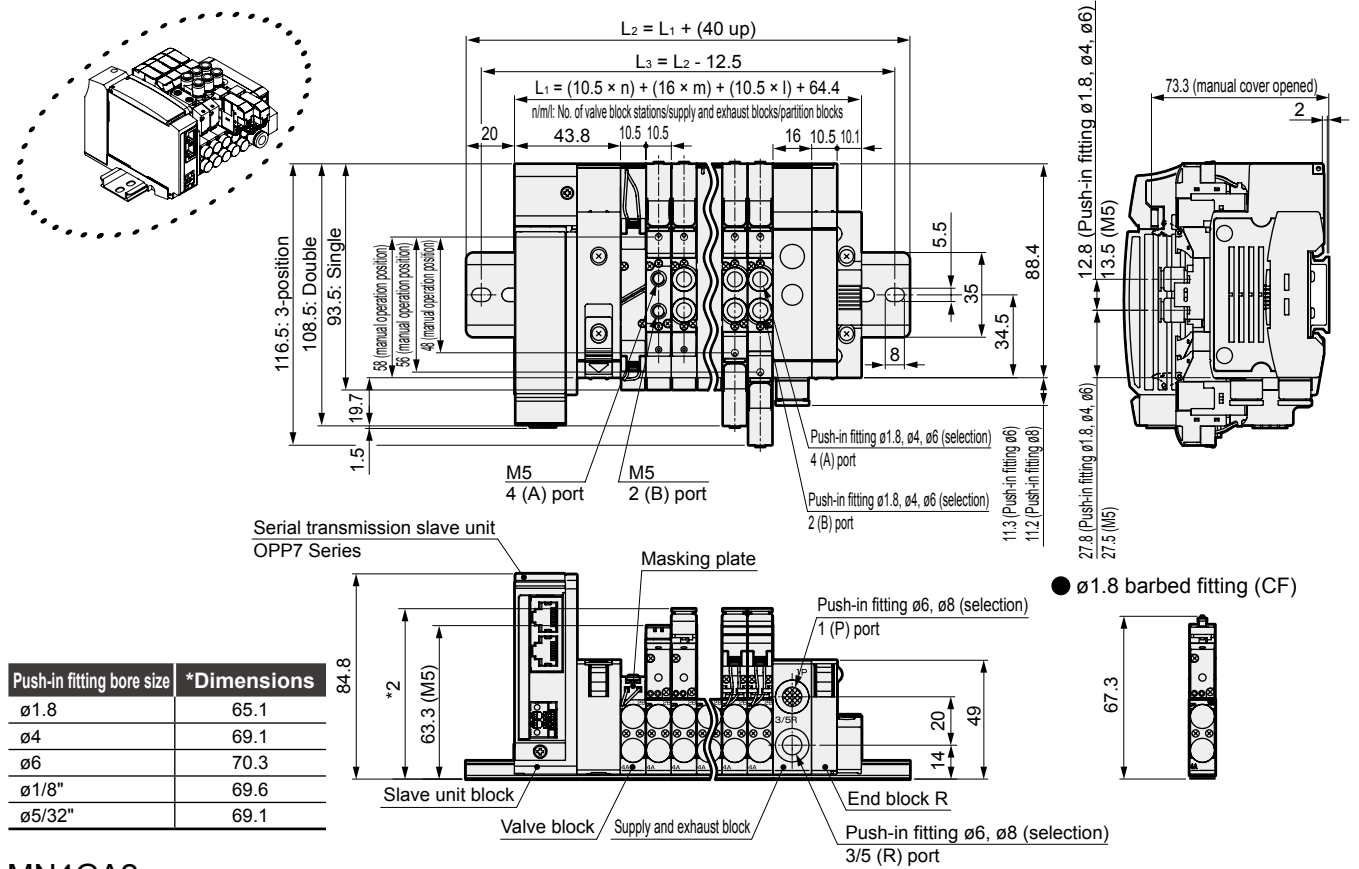
Reduced wiring block manifold: Body piping

Dimensions

MN4GA1

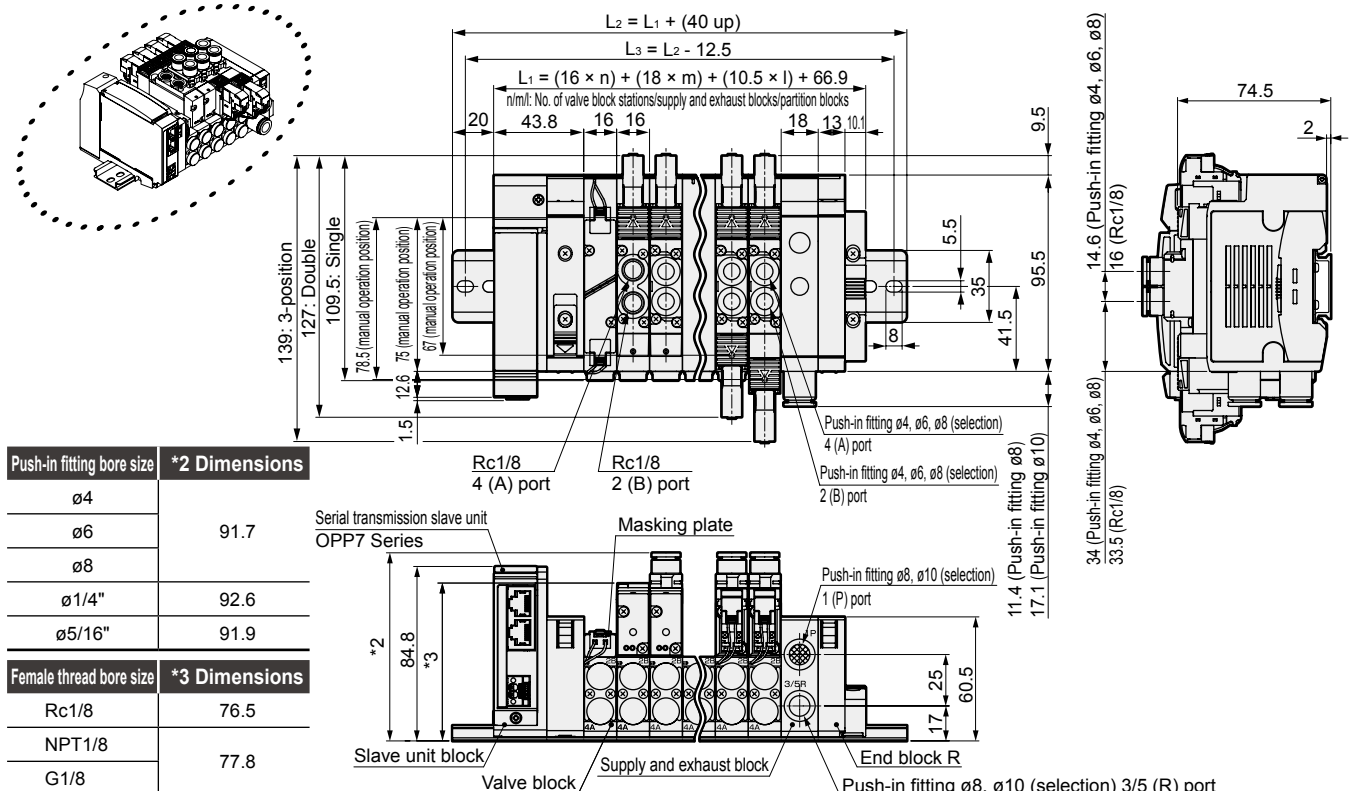
- Thin serial transmission (T8□)

Note: For the 2-position single 3-port valve, either port A or port B is a plug. In addition, the two 3-port valve built-in type has the same dimensions as the double model.



MN4GA2

- Thin serial transmission (T8□)



MN4GB1/2-T8* Series

Reduced wiring block manifold; base piping

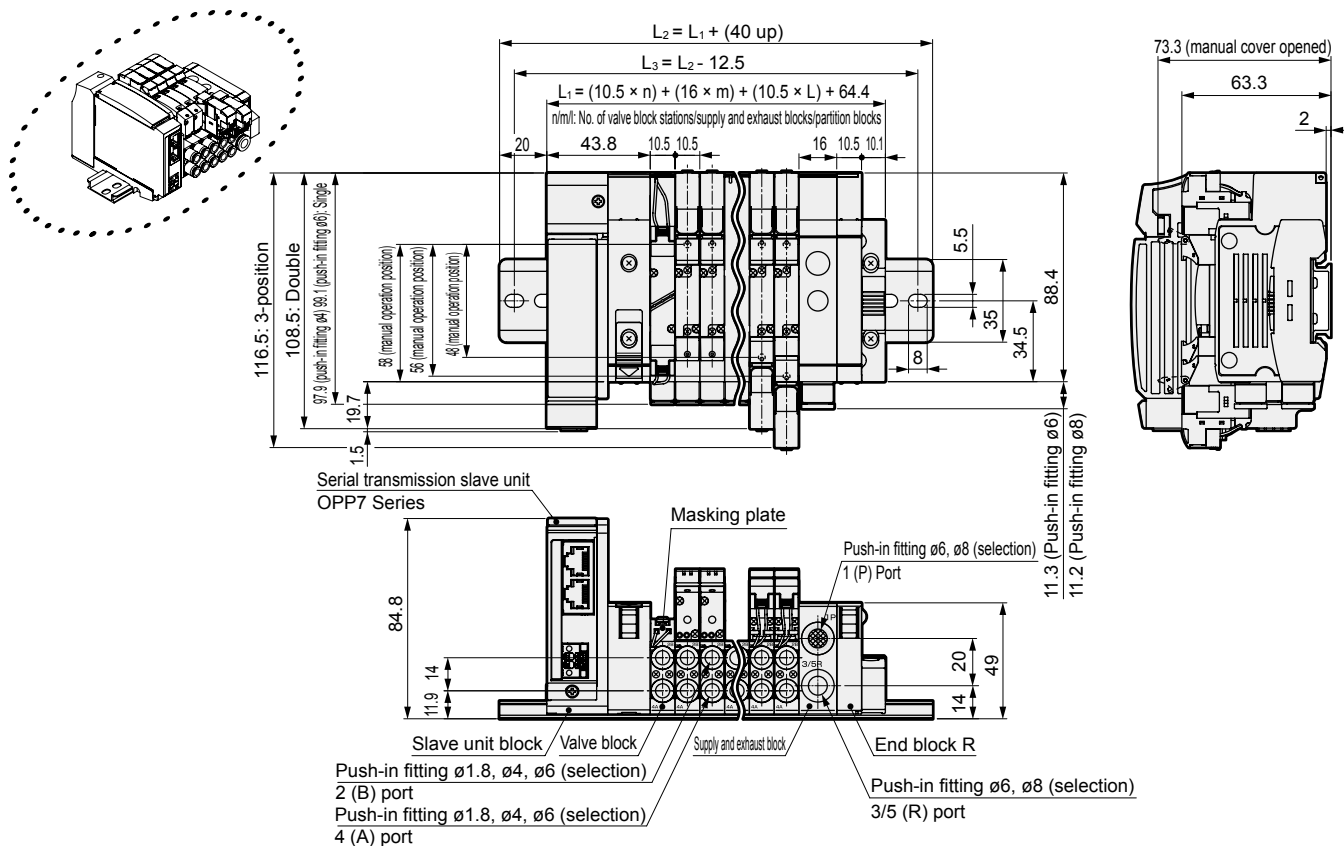
Dimensions



MN4GB1

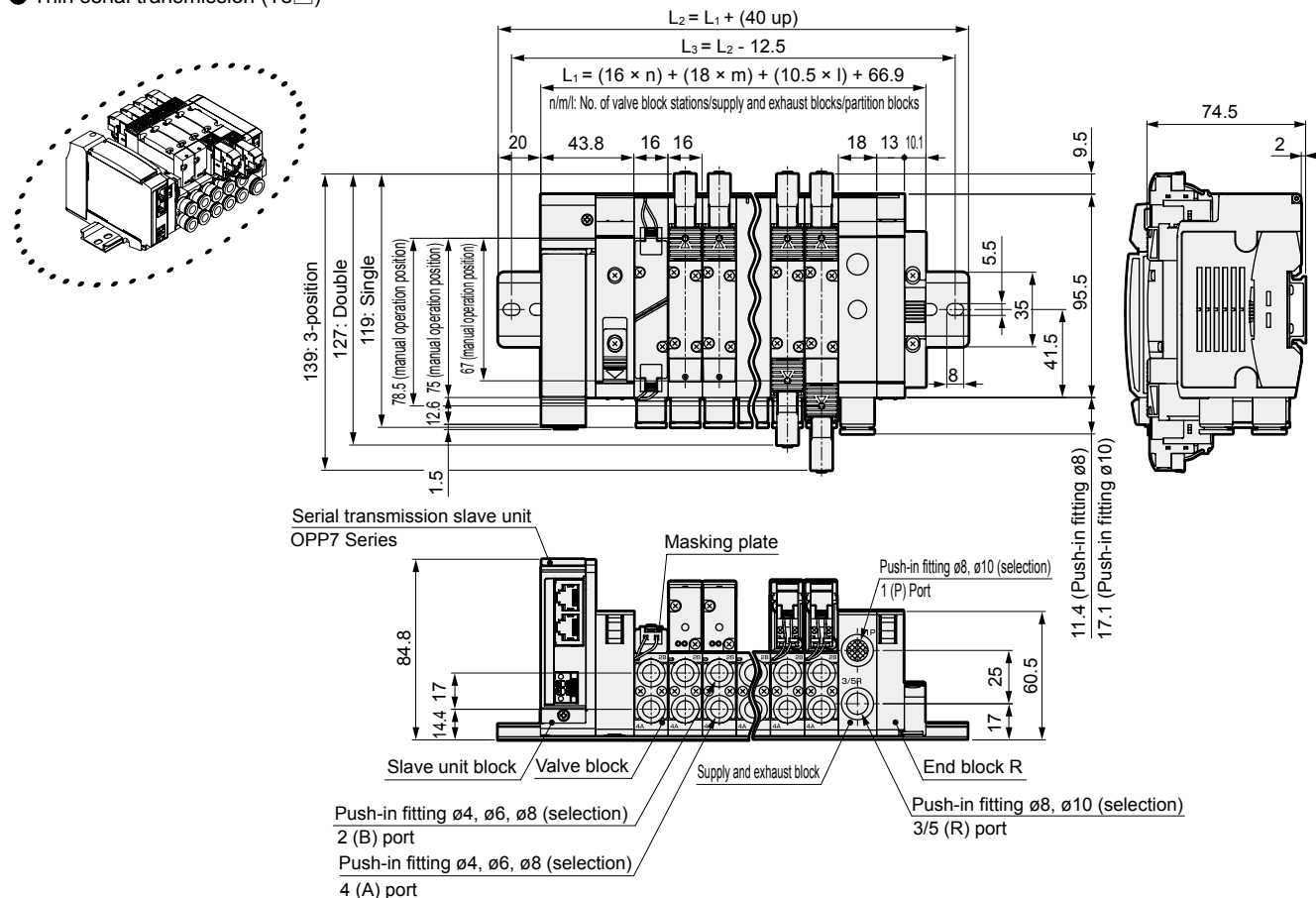
- Thin serial transmission (T8□)

Note: The two 3-port valve built-in type has the same dimensions as the double model.



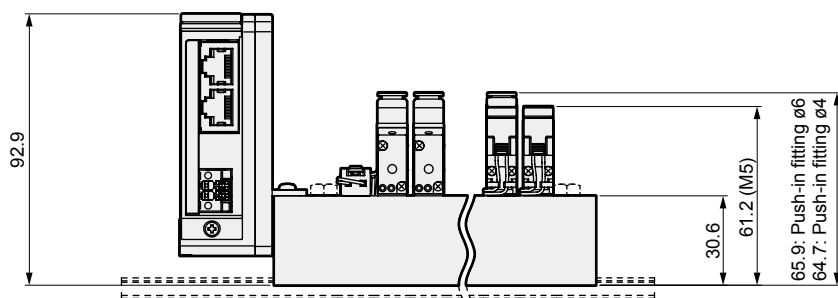
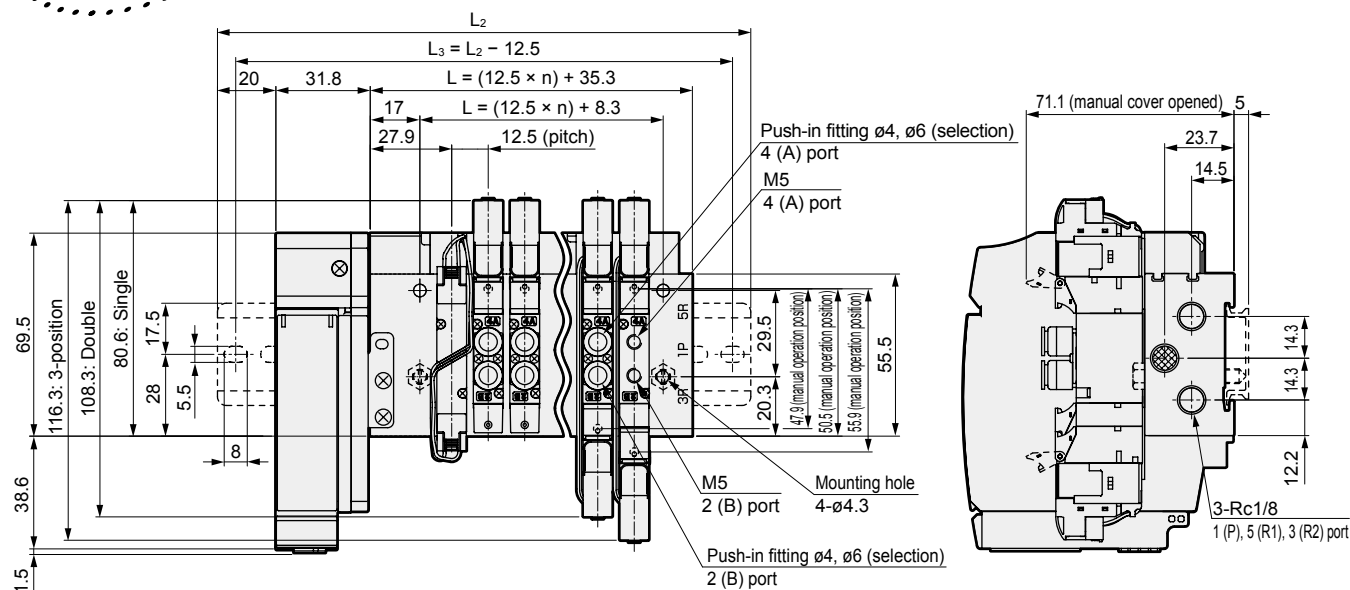
MN4GB2

- Thin serial transmission (T8□)



Reduced wiring manifold; body piping; serial transmission

- Serial transmission (T8)
DIN rail mount (D)



Stn.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	60.3	72.8	85.3	97.8	110.3	122.8	135.3	147.8	160.3	172.8	185.3	197.8	210.3	222.8	235.3	247.8	260.3	272.8	285.3
L ₁	33.3	45.8	58.3	70.8	83.3	95.8	108.3	120.8	133.3	145.8	158.3	170.8	183.3	195.8	208.3	220.8	233.3	245.8	258.3
L ₂	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5				
L ₃	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0				

M4GD2-T8* Series

Reduced wiring manifold; body piping; serial transmission

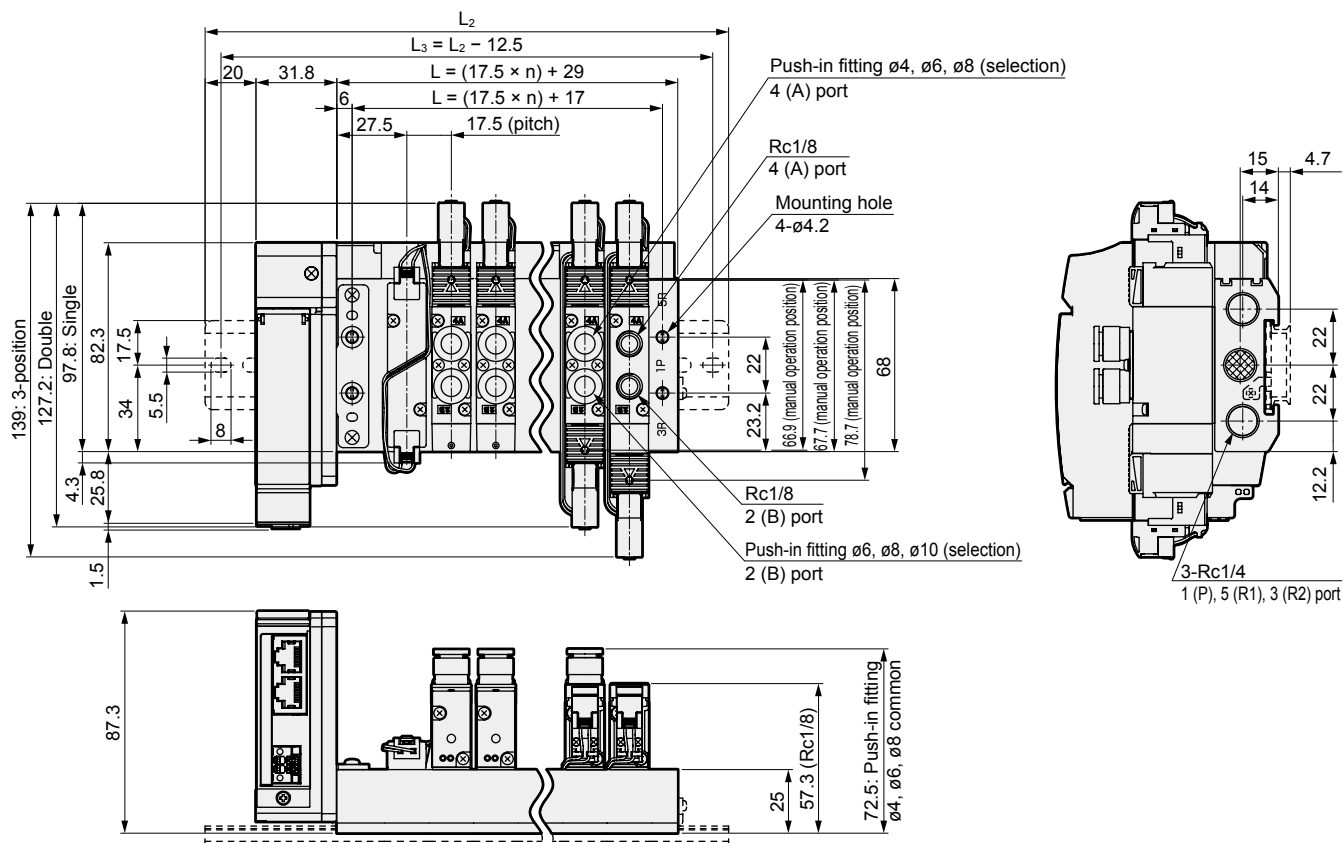
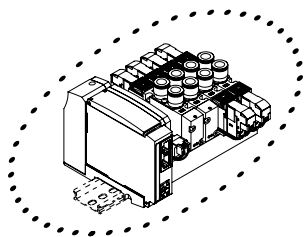
Dimensions



M4GD2

- Serial transmission (T8)
- DIN rail mount (D)

*For the 2-position single 3-port valve, either port A or port B is a plug.



Stn.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	64.0	81.5	99.0	116.5	134.0	151.5	169.0	186.5	204.0	221.5	239.0	256.5	274.0	291.5	309.0	326.5	344.0	361.5	379.0
L ₁	52.0	69.5	87.0	104.5	122.0	139.5	157.0	174.5	192.0	209.5	227.0	244.5	262.0	279.5	297.0	314.5	332.0	349.5	367.0
L ₂	137.5	162.5	175.0	200.0	212.5	225.0	250.0	262.5	287.5	300.0	312.5	337.5	350.0	375.0	387.5				
L ₃	125.0	150.0	162.5	187.5	200.0	212.5	237.5	250.0	275.0	287.5	300.0	325.0	337.5	362.5	375.0				

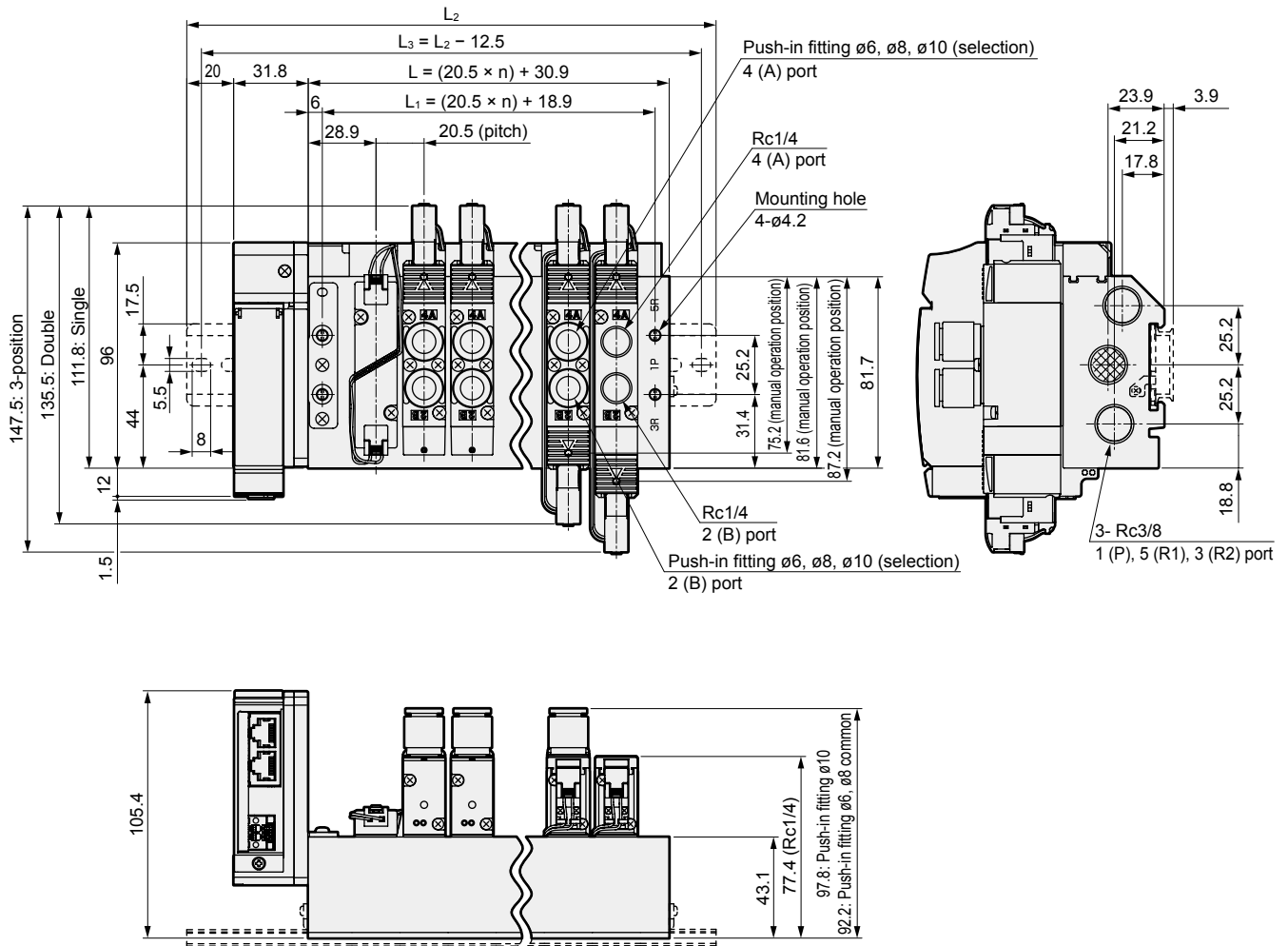
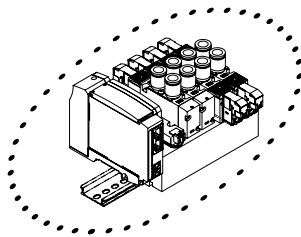
Dimensions



M4GD3

- Serial transmission (T8)
- DIN rail mount (D)

*For the 2-position single 3-port valve, either port A or port B is a plug.



Stn.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	71.9	92.4	112.9	133.4	153.9	174.4	194.9	215.4	235.9	256.4	276.9	297.4	317.9	338.4	358.9
L ₁	59.9	80.4	100.9	121.4	141.9	162.4	182.9	203.4	223.9	244.4	264.9	285.4	305.9	326.4	346.9
L ₂	150.0	175.0	187.5	212.5	237.5	250.0	275.0	287.5	312.5	337.5	350.0	375.0	400.0	412.5	437.5
L ₃	137.5	162.5	175.0	200.0	225.0	237.5	262.5	275.0	300.0	325.0	337.5	362.5	387.5	400.0	425.0

M4GE1-T8* Series

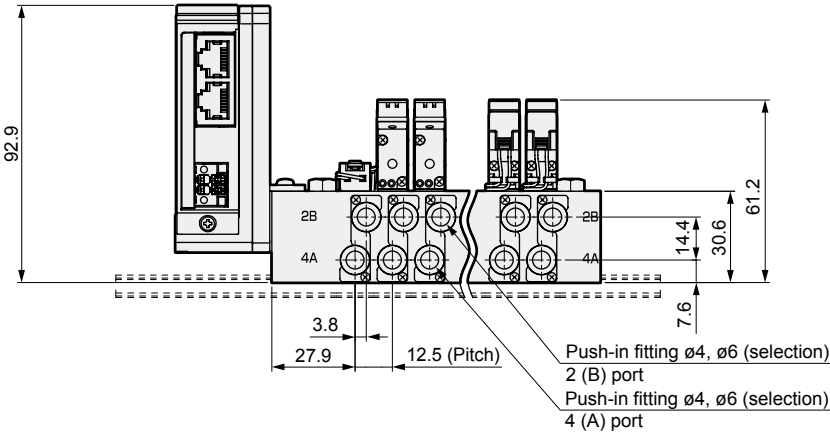
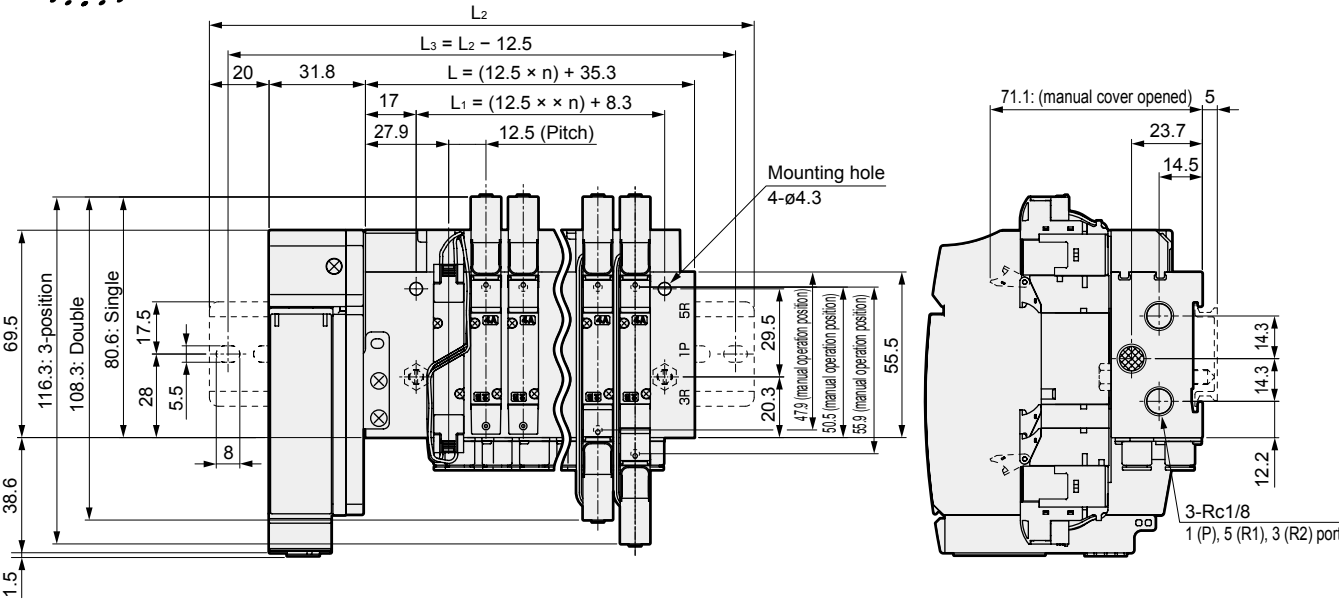
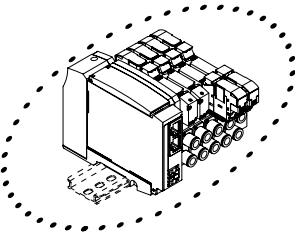
Reduced wiring manifold; base piping; serial transmission

Dimensions

M4GE1

- Serial transmission (T8) DIN rail mounting (D)

*The two 3-port valves integrated type has the same dimensions as the double type.



Stn.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	60.3	72.8	85.3	97.8	110.3	122.8	135.3	147.8	160.3	172.8	185.3	197.8	210.3	222.8	235.3	247.8	260.3	272.8	285.3
L1	33.3	45.8	58.3	70.8	83.3	95.8	108.3	120.8	133.3	145.8	158.3	170.8	183.3	195.8	208.3	220.8	233.3	245.8	258.3
L2	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5				
L3	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0				

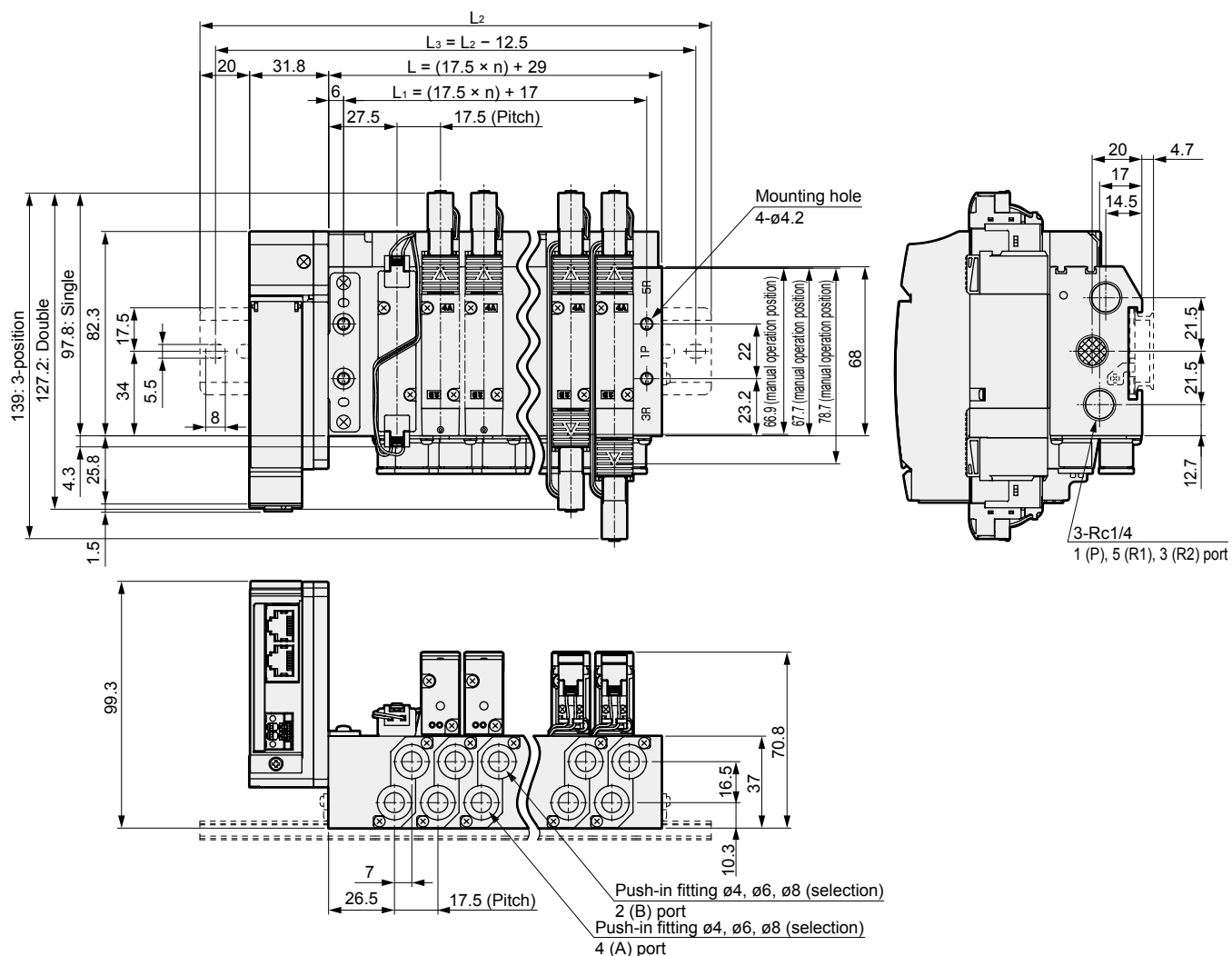
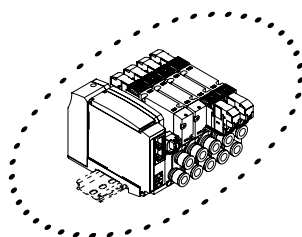
Dimensions



M4GE2

- Serial transmission (T8)
- DIN rail mounting (D)

*The two 3-port valves integrated type has the same dimensions as the double type.



Stn.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	64.0	81.5	99.0	116.5	134.0	151.5	169.0	186.5	204.0	221.5	239.0	256.5	274.0	291.5	309.0	326.5	344.0	361.5	379.0
L ₁	52.0	69.5	87.0	104.5	122.0	139.5	157.0	174.5	192.0	209.5	227.0	244.5	262.0	279.5	297.0	314.5	332.0	349.5	367.0
L ₂	137.5	162.5	175.0	200.0	212.5	225.0	250.0	262.5	287.5	300.0	312.5	337.5	350.0	375.0	387.5				
L ₃	125.0	150.0	162.5	187.5	200.0	212.5	237.5	250.0	275.0	287.5	300.0	325.0	337.5	362.5	375.0				

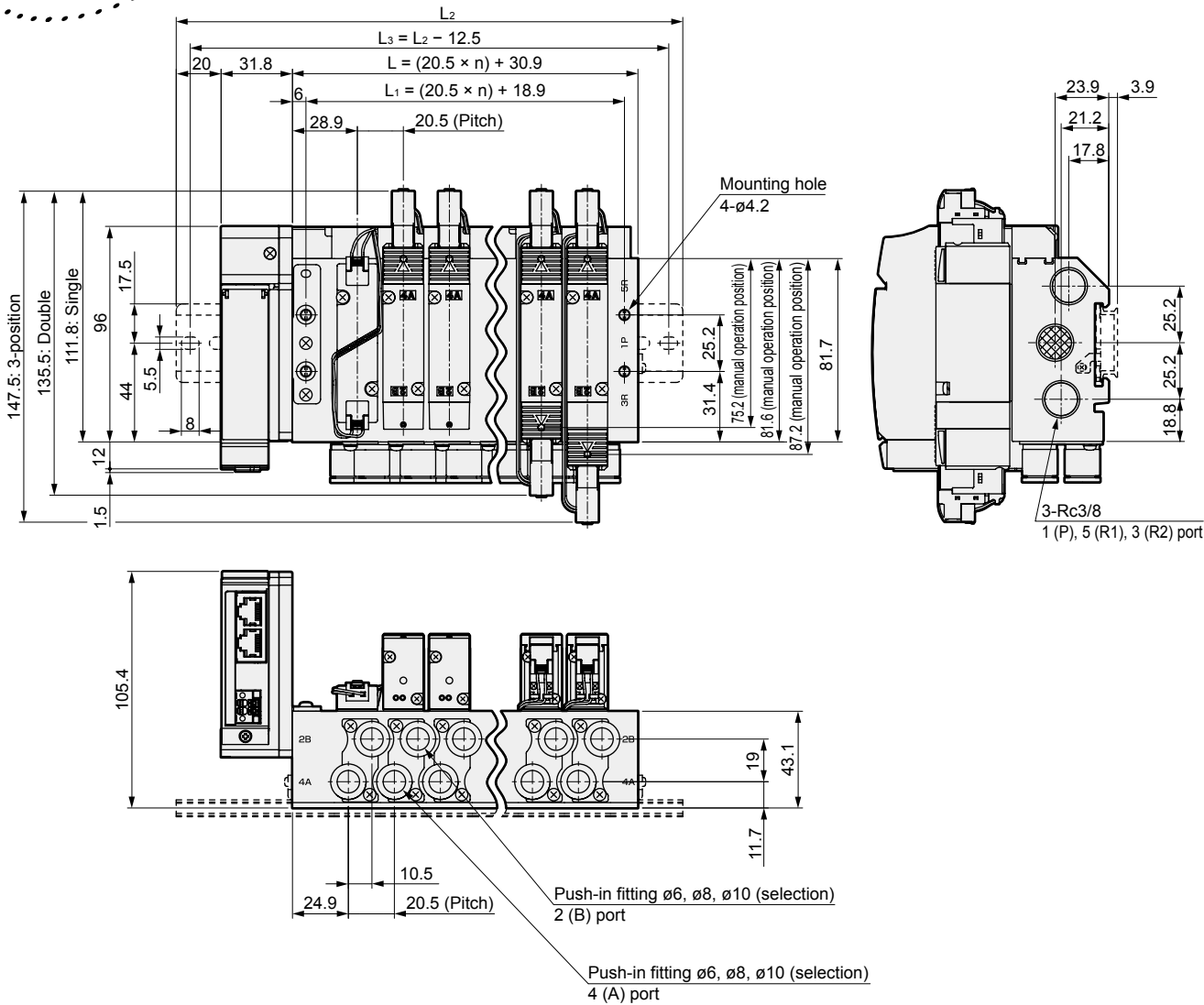
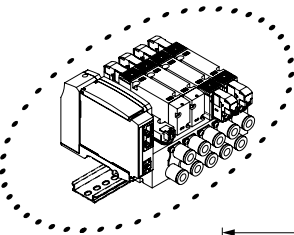
M4GE3-T8* Series

Reduced wiring manifold; base piping; serial transmission

Dimensions

M4GE3

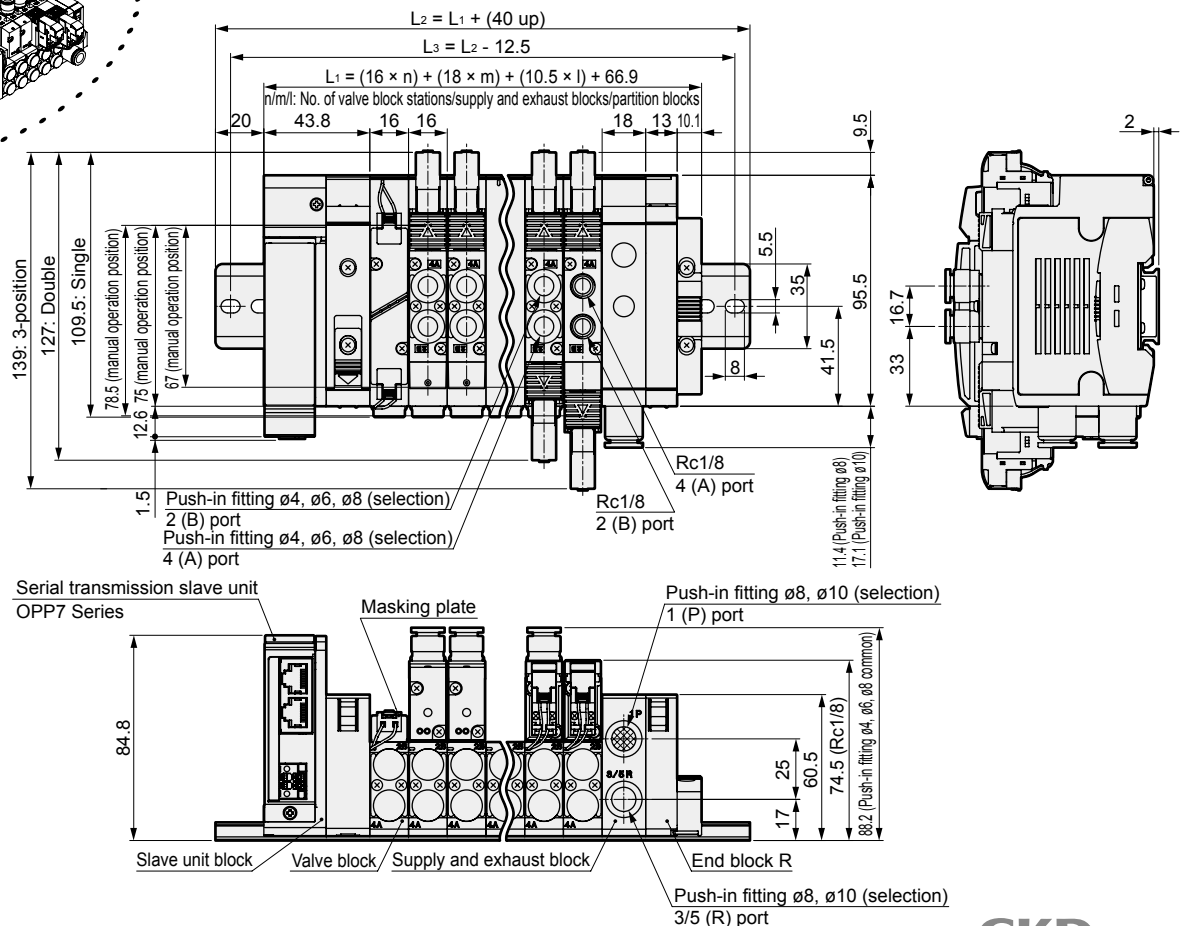
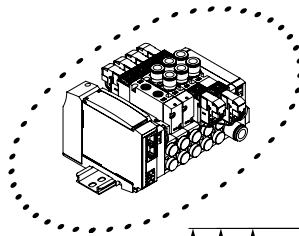
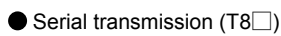
- Serial transmission (T8)
- DIN rail mounting (D)



Stn.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	71.9	92.4	112.9	133.4	153.9	174.4	194.9	215.4	235.9	256.4	276.9	297.4	317.9	338.4	358.9
L ₁	59.9	80.4	100.9	121.4	141.9	162.4	182.9	203.4	223.9	244.4	264.9	285.4	305.9	326.4	346.9
L ₂	150.0	175.0	187.5	212.5	237.5	250.0	275.0	287.5	312.5	337.5	350.0	375.0	400.0	412.5	437.5
L ₃	137.5	162.5	175.0	200.0	225.0	237.5	262.5	275.0	300.0	325.0	337.5	362.5	387.5	400.0	425.0

Reduced wiring block manifold; body piping

● Serial transmission (T8□)



MN4GE1 2-T8* Series

Reduced wiring block manifold; base piping

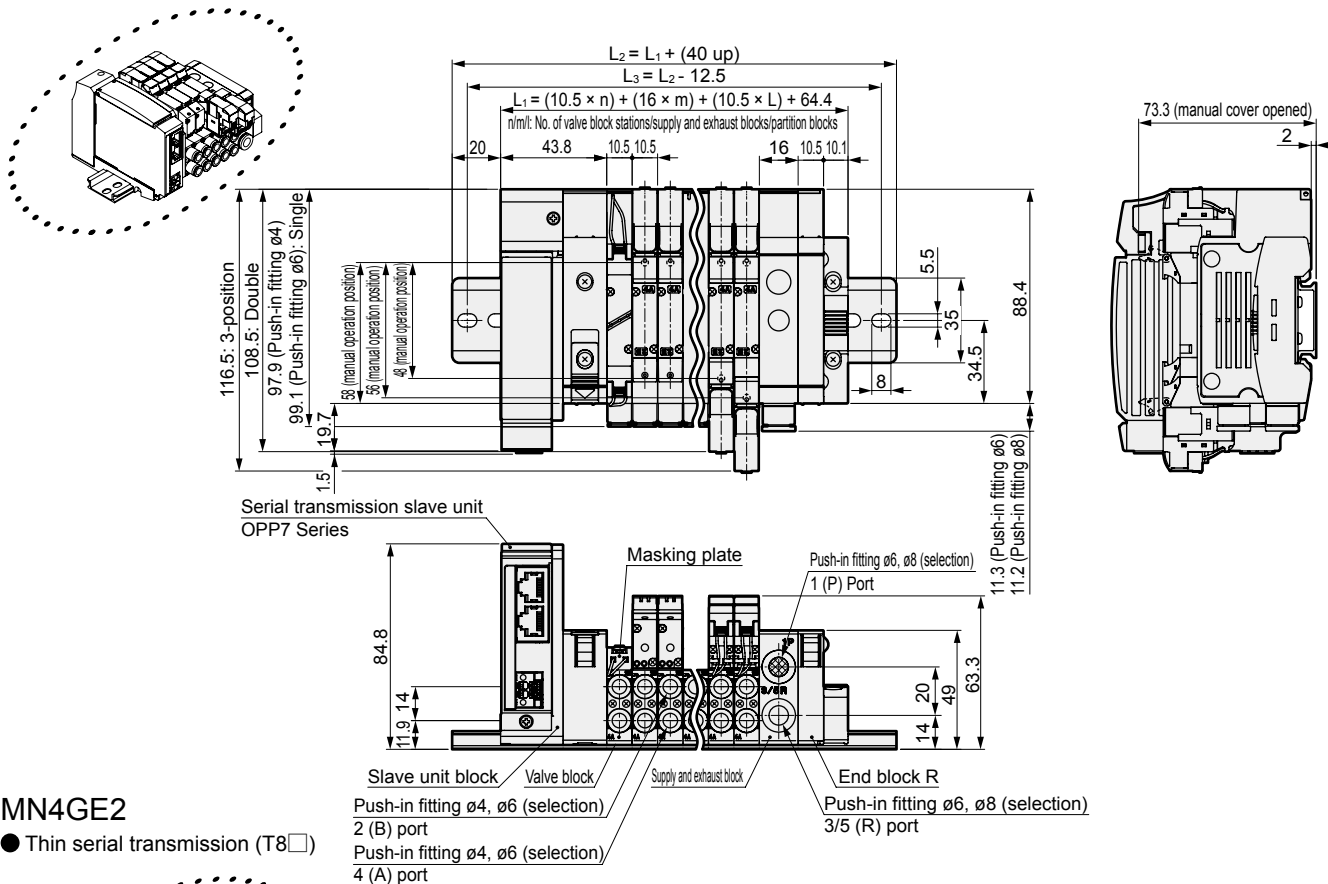
Dimensions



MN4GE1

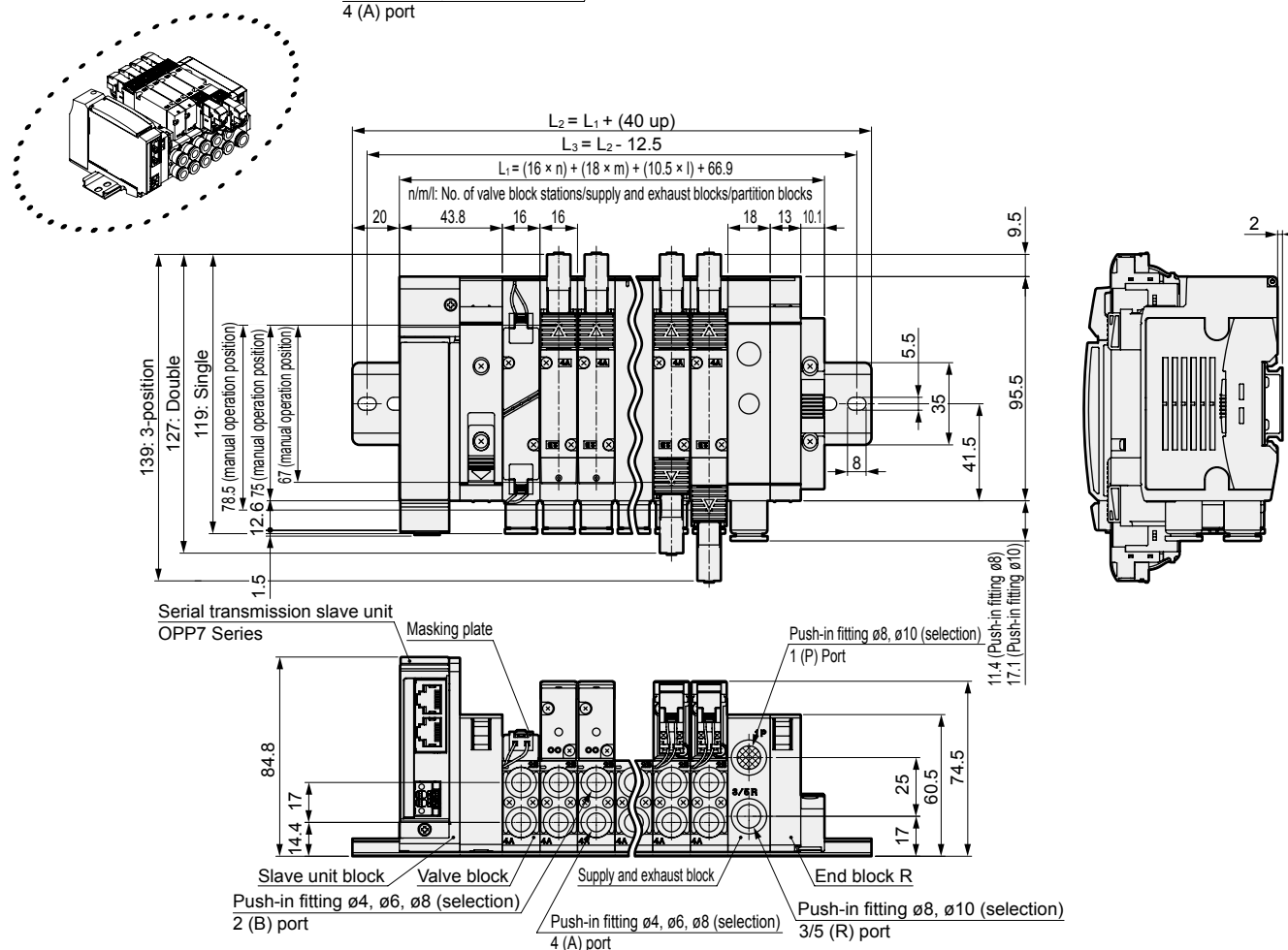
- Thin serial transmission (T8□)

Note: The two 3-port valve built-in type has the same dimensions as the double model.



MN4GE2

- Thin serial transmission (T8□)



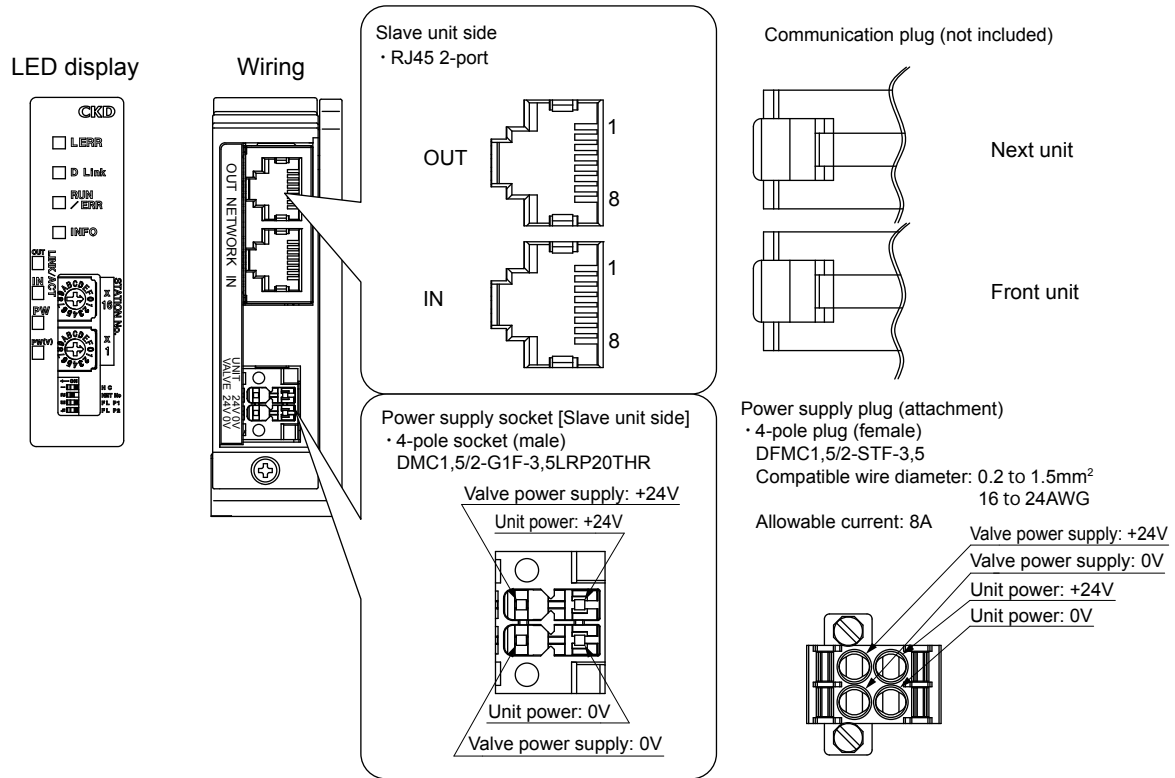
Technical data

■ Slave unit wiring

● Wiring to the power supply socket

Power supply connectors are included with the product. However, any connector that can be mated with the following slave station side connector can be used.

DMC 1,5/2-G1F-3,5-LRP20THRR44 4-pole connector Manufactured by PHOENIX CONTACT GmbH & Co. KG



■ LED display description

LED	Name	Display description
(1)	L ERR	Ethernet port link status indicated by LED ON status
(2)	D Link	CC-Link IE Field communication status indicated by LED ON status
(3)	RUN/ERR	Slave unit operational/communication status indicated by LED ON status
(4)	INFO	Slave unit body status indicated by LED ON status
(5)	Link/ACT	OUT (P1)
(6)		IN (P2)
(7)	PW	Indicates the power status of the unit power supply. Lit when power ON
(8)	PW(V)	Indicates the power status of the valve power supply. Lit when power ON (Cannot be monitored when unit power supply is not ON)

■ Communication plug pin array

Port	Pin	Signal name	LED
IN/ OUT	1	BI_DA+	Transmitted/received data, positive
	2	BI_DA-	Transmitted/received data, negative
	3	BI_DB+	Transmitted/received data, positive
	4	BI_DC+	Transmitted/received data, positive
	5	BI_DC-	Transmitted/received data, negative
	6	BI_DB-	Transmitted/received data, negative
	7	BI_DD+	Transmitted/received data, positive
	8	BI_DD-	Transmitted/received data, negative

*Conforms to 1000BASE-T straight wiring

M4G1 Serial transmission thin type

M4G^{A B D E}1-T8 Manifold specifications sheet

Date issued / /

Company

Contact

Order No.

● Contact ● Quantity set(s) ● Delivery date /

Slip No. Order No.

● Manifold model No.

M ^{A B D E} **G** **1** **0R-** - - - - - **3**

Solenoid valves Solenoid position Port size Serial transmission Terminal/connector pin array Option Mount type Station No. Voltage

Solenoid valve model No.			Fitting CX		Valve installation position																				Qty.
			A	B	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
4G	1	9R-																							
4G	1	9R-																							
4G	1	9R-																							
4G	1	9R-																							
4G	1	9R-																							
3G	1	9R-																							
3G	1	9R-																							
Masking plate 4 G1R-MP (S)-																									
Masking plate 4 G1R-MP (D)-																									
Air supply spacer 4 G1R-P-																									
In-stop valve spacer 4 G1R-IS																									
Exhaust spacer 4G1R-R-																									
Mounting Rail	L2= Write an integer multiple of 12.5.	Included Part	Blanking plug										Threaded plug				Silencer								
			PG-P2-B *2					GWP4-B					4G1R-M5P				SLW-6S		SLW-6A						
			GWP6-B					GWP8-B *3																	
			Push-in fitting tube remover (included as standard) ☐ Not required (check the box)																						

*M4GB C8 does not have a tube removal tool included. *2: Only M4GA, B supported *3: Only M4GB3 supported

● Wiring specifications sheet (Not required for standard wiring/double wiring. Complete these specifications when specifying the wiring order and additional cables)

Connector pin No.				Installation position																			
T8EF*				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
T8EF1	CC-Link IE	NPN	16 points	1																			
T8EF2			32 points	2																			
T8EFP1	Field	PNP	16 points	3																			
T8EFP2			32 points	4																			
				5																			
				6																			
				7																			
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				29																			
				30																			
				31																			
				32																			

M4G2 Serial transmission thin type

M4G^{A B D E}2-T8 Manifold specifications sheet

Date issued / /
 Company
 Contact
 Order No.

● Contact ● Quantity set(s) ● Delivery date /
 Slip No. Order No.

● Manifold model No.

M ^{A B D E} G 2 ^{A B D E} 0R- - - - - 3
 Solenoid valves Solenoid position Port size Serial transmission Terminal/connector pin array Option Mount Type Station No. Voltage

Solenoid valve model No.			Fitting CX		Valve installation position																				Qty.					
			A	B	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20						
4G	2	9R																												
4G	2	9R																												
4G	2	9R																												
4G	2	9R																												
4G	2	9R																												
3G	2	9R																												
3G	2	9R																												
Masking plate 4G2R-MP (S)-																														
Masking plate 4G2R-MP (D)-																														
Air supply spacer 4G2R-P-																														
In-stop valve spacer 4G2R-IS																														
Exhaust spacer 4G2R-R-																														
Pilot check valve spacer 4G2R-PC-M *																														
Mounting Rail	L ₂ = *Write an integer multiple of 12.5.	Included Part	Blanking plug										Threaded plug					Silencer												
			GWP4-B					GWP6-B					4G2R-06P					SLW-8S					SLW-8A							
			GWP8-B					GWP10-B *																						

*Only M4GB supported

● Wiring specifications sheet (Not required for standard wiring and double wiring. Complete these specifications when specifying the wiring order and additional cables)

Connector pin No.				Installation position																											
T8EF*				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20								
T8EF1	CC-Link IE	NPN	16 points	1																											
T8EF2			32 points	2																											
T8EFP1	Field	PNP	16 points	3																											
T8EFP2			32 points	4																											
				5																											
				6																											
				7																											
				8																											
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				32																											

M4G3 Serial transmission thin type

M4G^{A B D E}3-T8 Manifold specifications sheet

Date issued / /

Company

Contact

Order No.

● Contact ● Quantity set(s) ● Delivery date /

Slip No. Order No.

● Manifold model No.

M <sup>A
B
D
E</sup> **G** **3** **OR-** **3**

Solenoid valves Solenoid position Port size Serial transmission Terminal/connector pin array Option Mount Type Station No. Voltage

Solenoid valve model No.			Fitting CX		Valve installation position																Qty.
			A	B	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
4G	3	9R-																			
4G	3	9R-																			
4G	3	9R-																			
4G	3	9R-																			
4G	3	9R-																			
3G	3	9R-																			
3G	3	9R-																			
Masking plate 4G3R-MP (S)-																					
Masking plate 4G3R-MP (D)-																					
Air supply spacer 4G3R-P-																					
In-stop valve spacer 4G3R-IS																					
Exhaust spacer 4G3R-R-																					
Mounting Rail	L ₂ =	*Write an integer multiple of 12.5.	Included Part	Blanking plug								Threaded plug			Silencer						
				GWP6-B		GWP8-B		GWP10-B		4G3R-08P			SLW-10A		SLW-10L						

● Wiring specifications sheet (Not required for standard wiring/double wiring. Complete these specifications when specifying the wiring order and additional cables)

Connector pin No.				Installation position															
T8EF*				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
T8EF1	CC-Link IE Field	NPN	16 points	1															
T8EF2			32 points	2															
T8EFP1		PNP	16 points	3															
T8EFP2			32 points	4															
				5															
				6															
				7															
				8															
				9															
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				31															
				32															

MN4G1 Block manifold specifications sheet

●Contact _____ ●Quantity _____ set(s) _____ ●Delivery date _____ / _____ / _____
 Date issued _____ / _____ / _____
 Slip No. _____ Order No. _____ Company _____
 Contact _____
 Order No. _____

● Manifold model No.

MN ^A
^B ^D 1 0R- - - - - ^E 3

●A Model No. ●B Solenoid position ●C Port size ●D Electrical connections ●E Terminal/connector pin ●F Option ●G Station No. ●H Voltage
 (Reduced wiring connection) Array (Note: Fill in for reduced wiring.)

Select a model No. from the block components listed in "Pneumatic valves" (No. CB-023SA) when inputting.

Part name	Model No.			Layout position																														Qty.
				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	26	27	28	29	30	
Wiring block	N4G1R-T8EF																																	
With solenoid valve Valve block	N4G	1	0R-																															
	N4G	1	0R-																															
	N4G	1	0R-																															
	N4G	1	0R-																															
	N4G	1	0R-																															
	N4G	1	0R-																															
	N3G	1	0R-																															
	N3G	1	0R-																															
With masking plate Valve block	N4G	1R-MPS-																																
	N4G	1R-MPD-																																
Air supply spacer	4G1R-P-																																	
	4G1R-P-																																	
Exhaust spacer	4G1R-R-																																	
In-stop valve spacer	4G1R-IS	*																																
Supply and exhaust block	N4G1R-Q	-																																
	N4G1R-Q	-																																
	N4G1R-Q	-																																
Partition block	N4G1R-S																																	
	N4G1R-S																																	
	N4G1R-S																																	
End block	N4G1R-E																																	
Mounting rail	L ₂ = *Write an integer multiple of 12.5 Please fill in.	Blanking plug										Silencer										Tag plate (attachment)			Included Part									
		PG-P2-B					GWP4-B					SLW-H6					SLW-H8					A	B1	B2										
		GWP6-B					GWP8-B					Push-in fitting tube remover (included as standard) ☐ Not required (check the box)																						

*Only MN4GA, B supported

MN4G2 Block manifold specifications sheet

●Contact ●Quantity set(s) ●Delivery date / / /
 Date issued / / /
 Slip No. Order No. Company
 Contact
 Order No.

● Manifold model No.

MN ^AG ^B ^D2 ^E0R- - - - 3

(A) Model No. (B) Solenoid position (C) Port size (D) Electrical connections (E) Terminal/connector pin (F) Option (G) Station No. (H) Voltage

(Reduced wiring connection) Array (Note: Fill in for reduced wiring.)

Select a model No. from the block components listed in "Pneumatic valves" (No. CB-023SA) when inputting.

Part name	Model No.	Layout position																														Qty.
		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	26	27	28	29	30	
Wiring block	N4G2R-T8EF																															
With solenoid valve	N4G	2	0R-																													
Valve block	N4G	2	0R-																													
	N4G	2	0R-																													
	N4G	2	0R-																													
	N4G	2	0R-																													
	N4G	2	0R-																													
	N4G	2	0R-																													
	N3G	2	0R-																													
	N3G	2	0R-																													
With masking plate	N4G	2R-MPS-																														
Valve block	N4G	2R-MPD-																														
Air supply spacer	4G2R-P-																															
	4G2R-P-																															
Exhaust spacer	4G2R-R-																															
In-stop valve spacer	4G2R-IS	*1																														
Spacer Pilot check valve	4G2R-PC-M	*2																														
Supply and exhaust block	N4G2R-Q	-																														
	N4G2R-Q	-																														
	N4G2R-Q	-																														
Partition block	N4G2R-S																															
	N4G2R-S																															
	N4G2R-S																															
End block	N4G2R-E																															
Mounting rail	L ₂ = *Write an integer multiple of 12.5 Please fill in.	Blanking plug										Silencer										Tag plate (attachment)										Included Part
		GWP4-B					GWP8-B					SLW-H8					A					B										
		GWP6-B					GWP10-B					SLW-H10																				

*1: Only MN4GA, B supported *2: Only MN4GB supported

MN4G 1.2 Mixed manifold specifications sheet

●Contact ●Quantity set(s) ●Delivery date / / /
 Date issued / / /
 Slip No. Order No. Company
 Contact
 Order No.

● Manifold model No.

MN G X12R- - - - - -
 A Model No. B Port size C Electrical connections D Terminal/connector pin E Option F Station No. G Voltage H

Select a model No. from the block components listed in "Pneumatic valves" (No. CB-023SA) when inputting.

Part name	Model No.	Layout position																														Qty.
		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	26	27	28	29	30	
Wiring block	N4G R-T																															
With solenoid valve	N4G 0R-																															
Valve block	N4G 0R-																															
	N4G 0R-																															
	N4G 0R-																															
	N4G 0R-																															
	N4G 0R-																															
	N4G 0R-																															
	N4G 0R-																															
	N3G 0R-																															
N3G 0R-																																
With masking plate	N4G R-MP																															
Valve block	N4G R-MPS																															
	N4G R-MPD																															
Air supply spacer	4G1R-P-																															
	4G2R-P-																															
Exhaust spacer	4G1R-R-																															
	4G2R-R-																															
In-stop valve spacer *1	4G1R-IS																															
	4G2R-IS																															
Mixed block	N4G12R-MIX																															
Supply and exhaust block	N4G R-Q -																															
	N4G R-Q -																															
	N4G R-Q -																															
Partition block	N4G R-S																															
	N4G R-S																															
	N4G R-S																															
End block	N4G R-E																															
	N4G R-E																															
Mounting rail	L ₂ =	Blanking plug															Silencer													Included Part		
	*Write an integer multiple of 12.5 Please fill in.	PG-P2-B		GWP -B		GWP -B		GWP -B		SLW-H		SLW-H																				
		GWP -B	Push-in fitting tube remover (included as standard) ☐ Not required (check the box)																													

*Only MN4GA, B supported

Serial transmission (T8EF*) wiring specifications sheet

*Fill in and attach to the manifold specifications sheet for anything other than the standard wiring or double wiring. (Available as made to order)

*Not required with standard wiring/double wiring.

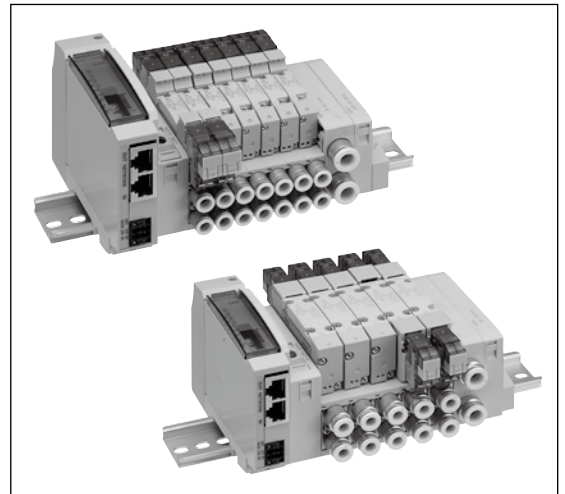
Serial transmission				Connector pin No.	Valve No.																							
				T8*	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
T8EF1	CC-Link IE Field	NPN	16 points	1																								
T8EF2			32 points	2																								
T8EFP1		PNP	16 points	3																								
T8EFP2			32 points	4																								
				5																								
				6																								
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Related products

CC-Link IE Field Basic Compatible Serial Transmission Slave Unit M4G/MN4G-T8 Series

- Two types of input/output points available (16-point output, 32-point output)
- Two output formats available (NPN, PNP output)
- Thin and space saving

Catalog No. CC-1359A



CC-Link IE Field Basic Compatible Serial Transmission Slave Unit W4G-T7 Series

- Three types of input/output points available (16-point output, 32-point output, 16-point input/16-point output)
- Two output formats available (NPN, PNP output)
- Thin and space saving
- Degree of protection IP65

Catalog No. CC-1358A



IoT Compatible Components Series

- Compatible with various industrial networks to support IoT at production sites. Contributes to the visualization of actuators and sensors operating inside equipment.
- In addition to electric actuators and direct drive motors that require reduced wiring, the lineup includes sensor-level network devices that are closer to the workpiece.
- Pneumatic and electric devices are listed by network to help reduce work hours in determining the network for the equipment.

Catalog No. CC-1466A

