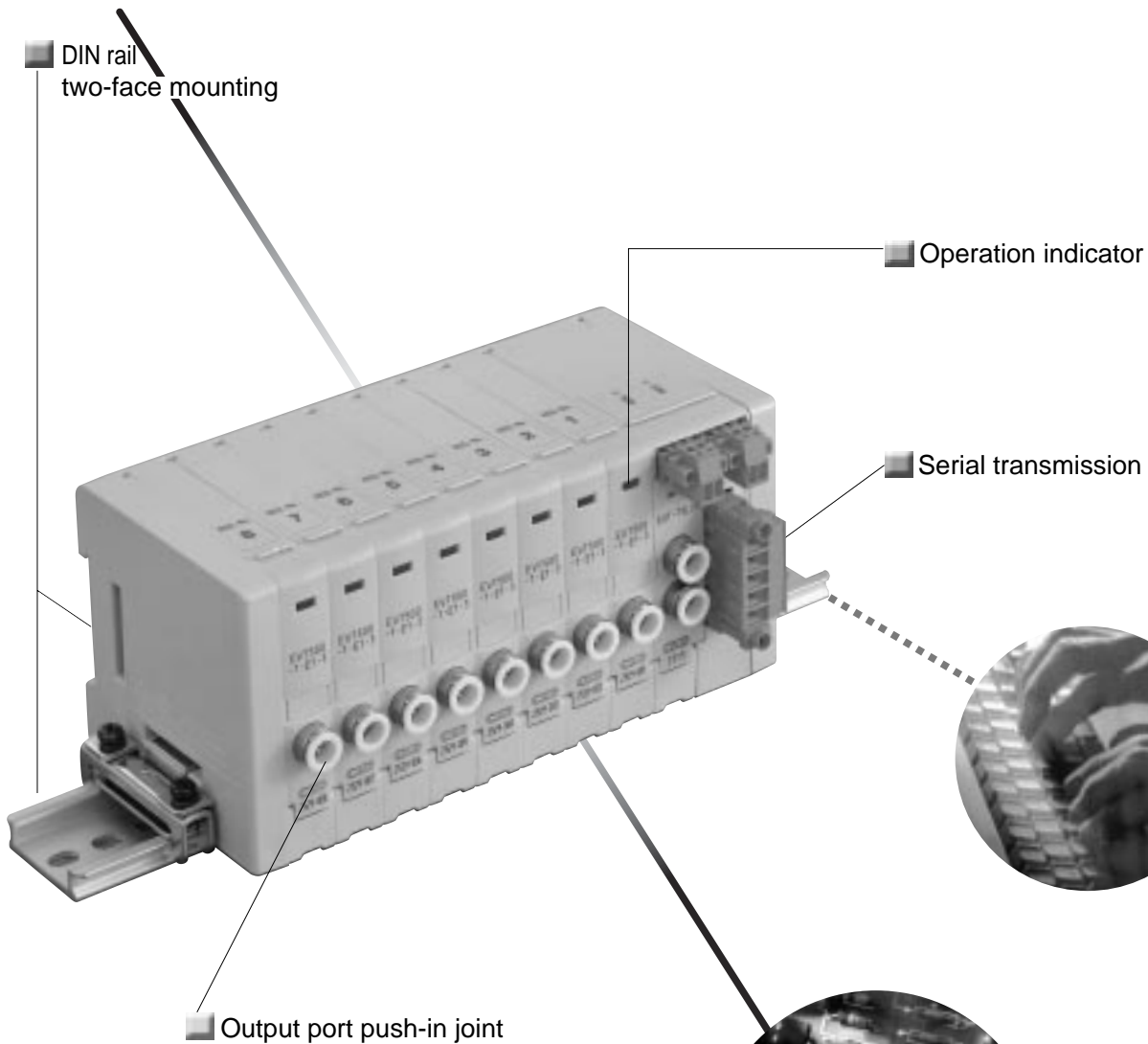


Advancing to ultra-precise micro system ranges

Manifold type thin electro pneumatic regulator compatible with PC control and reduced wiring.

Perfect for pressure control and fine speed cylinder control, etc., in semiconductor fields and precise processing fields, etc.

Refrigerating type dryer
Desiccant type dryer
High polymer membrane dryer
Air filter
Auto. drain / others
F.R.L (Module unit)
F.R.L (Separate)
Compact F.R.
Precise regulator
F.R.L (Related products)
Clean F.R.
Electro pneumatic regulator
Air booster
Speed control valve
Silencer
Check valve / others
Joint / tube
Vacuum filter
Vacuum regulator
Suction plate
Magnetic spring buffer
Mechanical pressure SW
Electronic pressure SW
Contact / close contact conf. SW
Air sensor
Pressure SW for coolant
Small flow sensor
Small flow controller
Flow sensor for air
Flow sensor for water
Total air system
Total air system (Gamma)
Ending

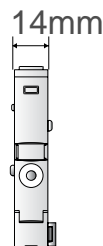


MEVT Series

Micro thin electro pneumatic regulator

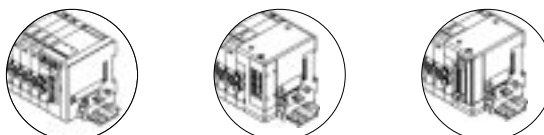
14mm thin and 80g light

With this high integration type, up to 24 manifold stations can be used.



Network-compatible

A serial transmission, common gland and D-sub connector wiring block are available.



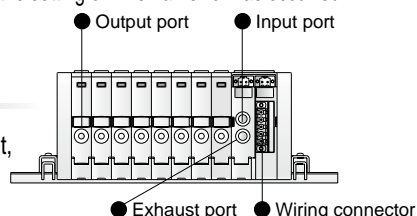
● Serial transmission type ● Common gland type ● D sub-connector type

2-color display of operation status

The 2-color operation indicator (PAT. PEND) indicates the green zone when pressure is at set pressure and the red zone when pressure is not within the setting or when an error has occurred.

Easy piping and wiring work

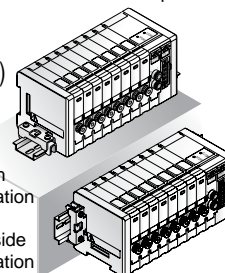
Piping and wiring have been centralized on the front, improving workability and reducing space.



2 installation direction (PAT.PEND)

This regulator can be installed either on the bottom or on the back. The surface for installation and work can be selected freely.

- Bottom installation
- Rear side installation



Precise/quick response

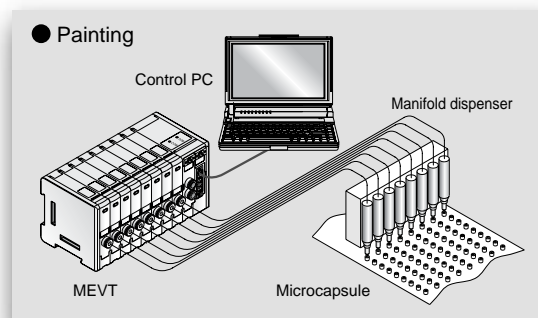
Fluid pressure is controlled at high accuracy and high speed response using electrical signals. Repeatability is 0.3%F.S. and response time is 0.1 sec. (with no load) * Refer to specifications

Environmental-friendly product

The material name is indicated on main components, making easy to sort parts for recycling.



Applications



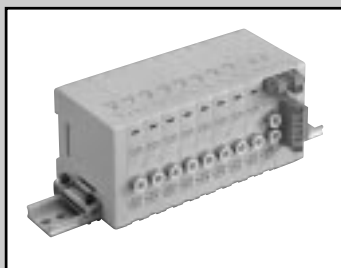
Other applications

- Fluid precise constant discharge system
 - IC chip bonding
 - PCB cream soldering
 - PCB coating
 - UV adhesive, etc.
- CMP grinder

Refrigerating type dryer
Desiccant type dryer
High polymer membrane dryer
Air filter
Auto. drain / others
F.R.L. (Module unit)
F.R.L. (Separate)
Compact F.R.
Precise regulator
F.R.L. (Related products)
Clean F.R.
Electro pneumatic regulator
Air booster
Speed control valve
Silencer
Check valve / others
Joint / tube
Vacuum filter
Vacuum regulator
Suction plate
Magnetic spring buffer
Mechanical pressure SW
Electronic pressure SW
Contact / close contact cont. SW
Air sensor
Pressure SW for coolant
Small flow sensor
Small flow controller
Flow sensor for air
Flow sensor for water
Total air system
Total air system (Gamma)

Ending

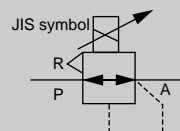
Thin electro pneumatic regulator F.R.L. unit



Thin electro pneumatic regulator

Reduced wiring manifold type

MEVT Series



Specifications (Note 1)

Descriptions		EVT100	EVT500
Working fluid		Clean compressed air	
Max. working pressure		200kPa	0.7MPa
Min. working pressure		Control pressure + max. control pressure x 0.1	
Withstanding pressure	Inlet side	300kPa	1.05MPa
	Output side	150kPa	0.75MPa
Control pressure range		0 to 100kPa	0 to 0.5MPa
Power voltage		24 VDC \pm 10% (safety power supply with ripple ratio 1% or less)	
Current consumption		0.1A or less	
Input signal (input impedance)		0 to 10 VDC (6.6k Ω)	
		0 to 5 VDC (3.3k Ω)	
		4 to 20mA	
Monitor output	Note 2	1 to 5 VDC (load impedance 1k Ω and over)	
Insulation resistance		100M Ω (500 VDC mega) and over	
Withstand voltage		1500 VAC for one minute	
Hysteresis	Note 3	0.4%F.S. or less	
Linearity	Note 3	\pm 0.5% F.S. or less	
Resolution	Note 3	0.1% F.S. or less	
Repeatability	Note 3	0.3%F.S. or less	
Temperature characteristics	Zero point variation	0.15% F.S./ $^{\circ}$ C or less	
	Span variation	0.07% F.S./ $^{\circ}$ C or less	
Maximum flow rate (ANR)	Note 4	2 ℓ /min	6 ℓ /min
Step response	Note 5 Loadless	0.1s or less	
	15cm ³ load	0.5s or less	
Ambient temperature		5 to 50 $^{\circ}$ C	
Fluid temperature		5 to 50 $^{\circ}$ C	
Indicator	Note 6	2 color indicator	
Lubrication		Not available	
Mounting attitude		Free	
Working environment		Containing corrosive gas is not permissible.	
Main dimensions		W14 x D75 x H75	
Weight (body)		80g	

Note 1: Above characteristics are the values where power voltage is 24V \pm 0.15 VDC, and measured at room temperature.

Note 2: Monitor output is not available for the serial transmission type.

Device Net-compatible (T9DAR) and CC-Link-compatible (T9GAR) types have pressure monitor data. (Refer to the serial transmission slave station specifications on page 819.)

Note 3: Working pressure is to be max. control pressure X1.1 (EVT100: 110kPa, EVT500: 0.55MPa), and the characteristics at control pressure 10 to 100% are shown. Limited to a closed circuit in the secondary side, the pressure may fluctuate if used air blow, etc.

Note 4: The characteristics where working pressure is maximum and control pressure is maximum are shown.

Note 5: Characteristics where working pressure is maximum, and step rates

- 50% F.S. \rightarrow 100% F.S. are shown.
- 50% F.S. \rightarrow 60% F.S.
- 50% F.S. \rightarrow 40% F.S.

Note 6: Operational indicator is just for reference, but not to assure the accuracy.

Manifold specifications

Descriptions	Electric / supply and exhaust block		
	T11R/T30R	T9DAR/T9GAR	T9LOR *2
Manifold type	Block manifold		
Installation method	DIN rail mount type		
Air supply / exhaust method	Common supply / common exhaust		
Maximum station number	8 stations	12 stations *1	24 stations *1
Port size	Output port (A)	ϕ 4, ϕ 6 push-in joint	
	Input (P)/exhaust port (R)	ϕ 4, ϕ 6 push-in joint	

* 1: The maximum number of stations for one slave unit is four (T9DAR/T9GAR) and eight (T9LOR).

* 2: T9LOR is not RoHS-compliant.

How to order

Manifold model no.

MEVT **500** - **0** **C4** - **T11R** - **8** - **U** - **3**

Discrete EVT model no.

EVT **500** - **0** **C4** - **E2** - **3**

Model no.

A Control pressure range

B Input control signal

C Port size
Note 1
Note 2

D Electric / supply and exhaust Block

E Lead wire type

F Station number

G DIN rail Installation attitude

H Voltage

* Always indicate "Manifold specification sheet" (page 825).

Symbol	Descriptions					
A Control pressure range						
100	0 to 100kPa					
500	0 to 0.5MPa					
B Input control signal						
		Electric / supply and exhaust block				
		T11R	T30R	T9DAR	T9GAR	T9LOR
0	0 to 10 VDC	●	●			●
1	0 to 5 VDC	●	●	●	●	
2	4 to 20mA	●	●			
C Port size (output port (A))						
C4	φ4 push-in joint					
C6	φ6 push-in joint					
D Electric / supply and exhaust block						
T11R	Common gland type					
T30R	D sub-connector type					
T9DAR	Serial transmission type (Device Net input 4 point/output 4 point)					
T9GAR	Serial transmission type (CC-Link Ver1.10 input 4 point/output 4 point)					
T9LOR	Serial transmission type (SAVE NET output 8 point)					
E Lead wire type						
		Electric / supply and exhaust block				
		T11R	T30R	T9DAR	T9GAR	T9LOR
E1	3P connector					●
E2	4P connector	●	●	●	●	
F Station number						
1	1 station					
to	(Differs with the reduced wiring connection specifications.)					
24	24 stations (Refer to manifold specifications on page 804.)					
G DIN rail installation attitude						
U	Bottom side					
B	Rear side					
H Voltage						
3	24 VDC					

⚠ Note on selection guide

Note 1: Indicate port size of input (P)/exhaust (R) at electric/supply and exhaust block section.

Note 2: A filter is integrated to input (P)/output (A).

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

● Dust generation preventing structure for use in cleanrooms

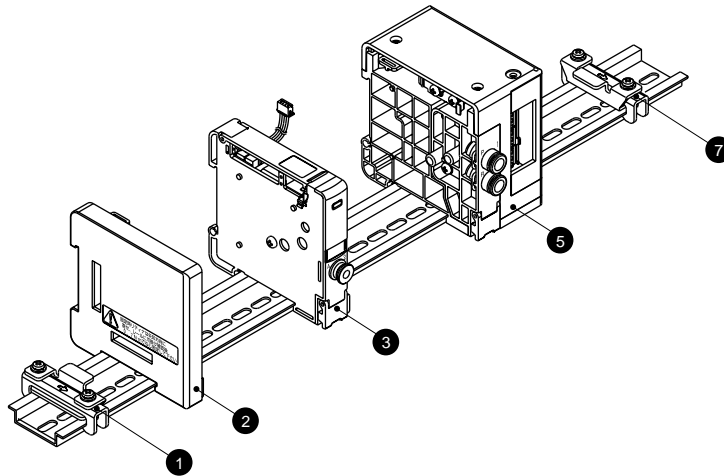
MEVT - - **P70**

Refrigerating type dryer
Desiccant type dryer
High polymer membrane dryer
Air filter
Auto. drain / others
F.R.L. (Module unit)
F.R.L. (Separate)
Compact F.R.
Precise regulator
F.R.L. (Related products)
Clean F.R.
Electro pneumatic regulator
Air booster
Speed control valve
Silencer
Check valve / others
Joint / tube
Vacuum filter
Vacuum regulator
Suction plate
Magnetic spring buffer
Mechanical pressure SW
Electronic pressure SW
Contact / close contact cont. SW
Air sensor
Pressure SW for coolant
Small flow sensor
Small flow controller
Flow sensor for air
Flow sensor for water
Total air system
Total air system (Gamma)

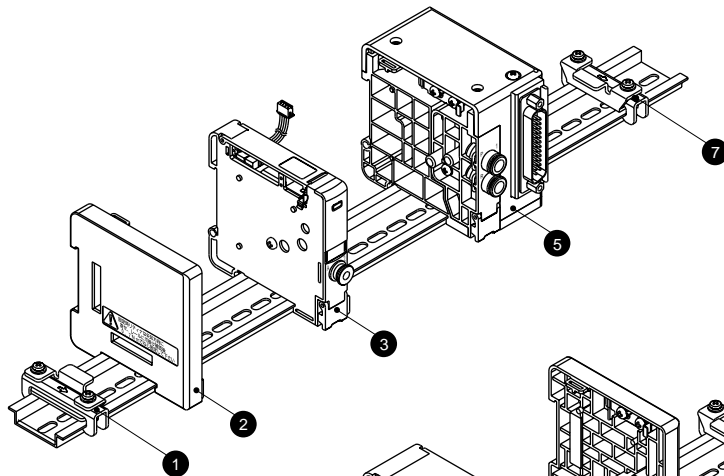
Ending
Thin electro pneumatic regulator
F.R.L. unit

MEVT component explanation and part list

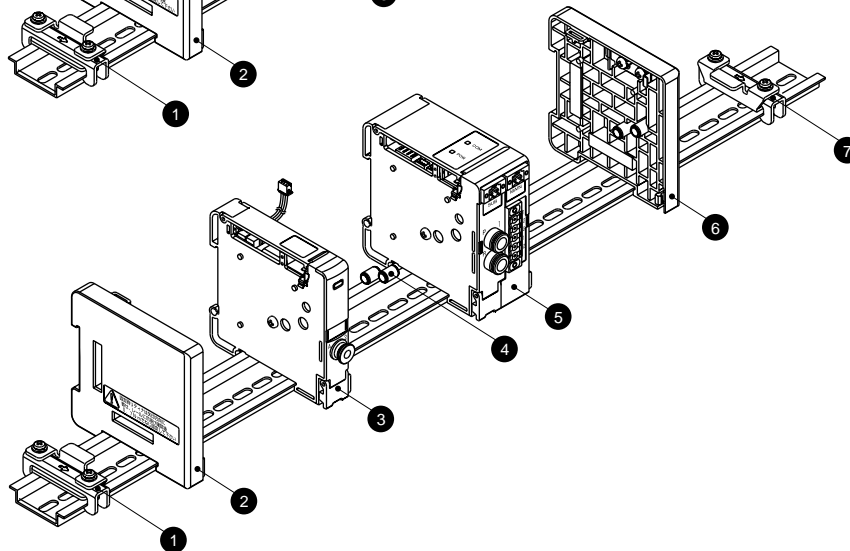
Common gland type



D sub-connector type



Serial transmission type



Main parts list

No.	Block configurations parts name	Model no.	No.	Block configurations parts name	Model no.
1	Retainer L	EVT-HL	5	Electric / supply and exhaust block	EVT-T*
2	End block L	EVT-EL	6	End block R	EVT-ER
3	EVT	EVT*00	7	Retainer R	EVT-HR
4	Piping joint	EVT-P			

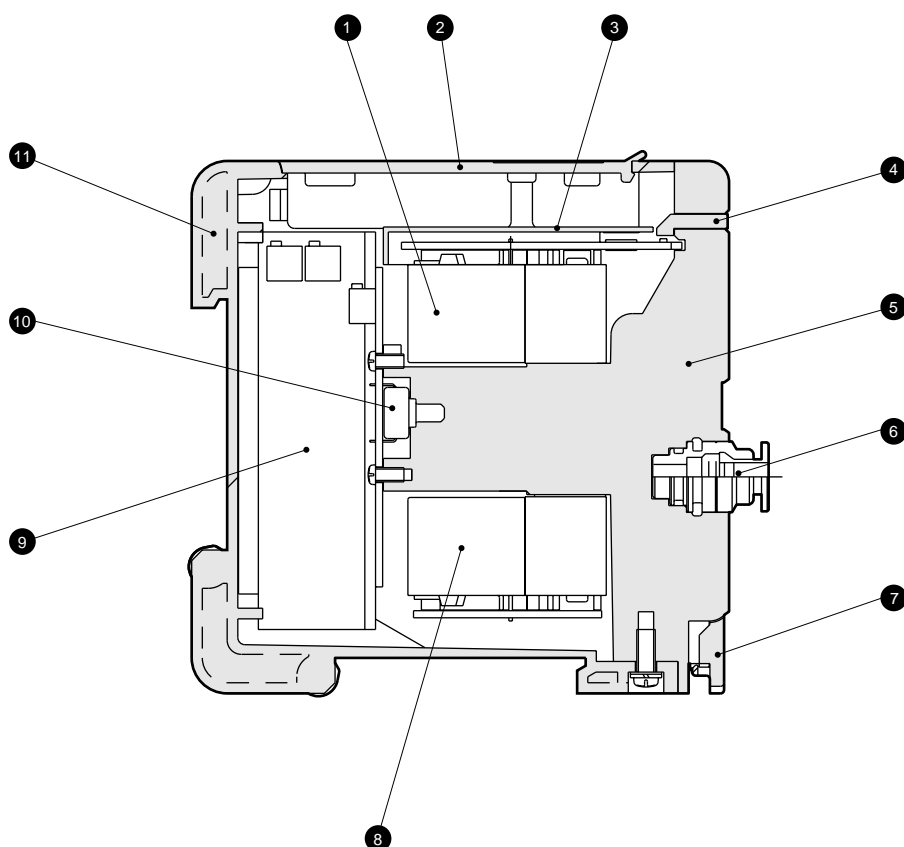
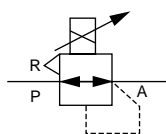
Weight

Block type		Weight	Block type		Weight
EVT	EVT*00	80	Electric / supply and exhaust block	T11R	115
	EVT-EL	30		T30R	125
	EVT-ER	30		T9*R	145
			Retainer	EVT-H*	25
			Piping joint	EVT-P	-

Refrigerating type dryer
Desiccant type dryer
High polymer membrane dryer
Air filter
Auto. drain / others
F.R.L (Module unit)
F.R.L (Separate)
Compact F.R.
Precise regulator
F.R.L (Related products)
Clean F.R.
Electro pneumatic regulator
Air booster
Speed control valve
Silencer
Check valve / others
Joint / tube
Vacuum filter
Vacuum regulator
Suction plate
Magnetic spring buffer
Mechanical pressure SW
Electronic pressure SW
Contact / close contact conf. SW
Air sensor
Pressure SW for coolant
Small flow sensor
Small flow controller
Flow sensor for air
Flow sensor for water
Total air system
Total air system (Gamma)
Ending

Internal structure and parts list

● EVT



Main parts list

No.	Parts name	Material	No.	Parts name	Material
1	Solenoid valve		7	Connection hook plate	Polyamide resin
2	Wiring cover	ABS resin	8	Solenoid valve for exhaust	
3	Valve guard	ABS resin	9	Control circuit board	
4	Display lens	Polycarbonate resin	10	Pressure sensor	
5	Body	Polyamide resin	11	Case	ABS resin
6	Push-in joint				

Refrigerating type dryer
Desiccant type dryer
High polymer membrane dryer
Air filter
Auto. drain / others
F.R.L. (Module unit)
F.R.L. (Separate)
Compact F.R.
Precise regulator
F.R.L. (Related products)
Clean F.R.
Thin electro pneumatic regulator
Air booster
Speed control valve
Silencer
Check valve / others
Joint / tube
Vacuum filter
Vacuum regulator
Suction plate
Magnetic spring buffer
Mechanical pressure SW
Electronic pressure SW
Contact / close contact cont. SW
Air sensor
Pressure SW for coolant
Small flow sensor
Small flow controller
Flow sensor for air
Flow sensor for water
Total air system
Total air system (Gamma)

Ending

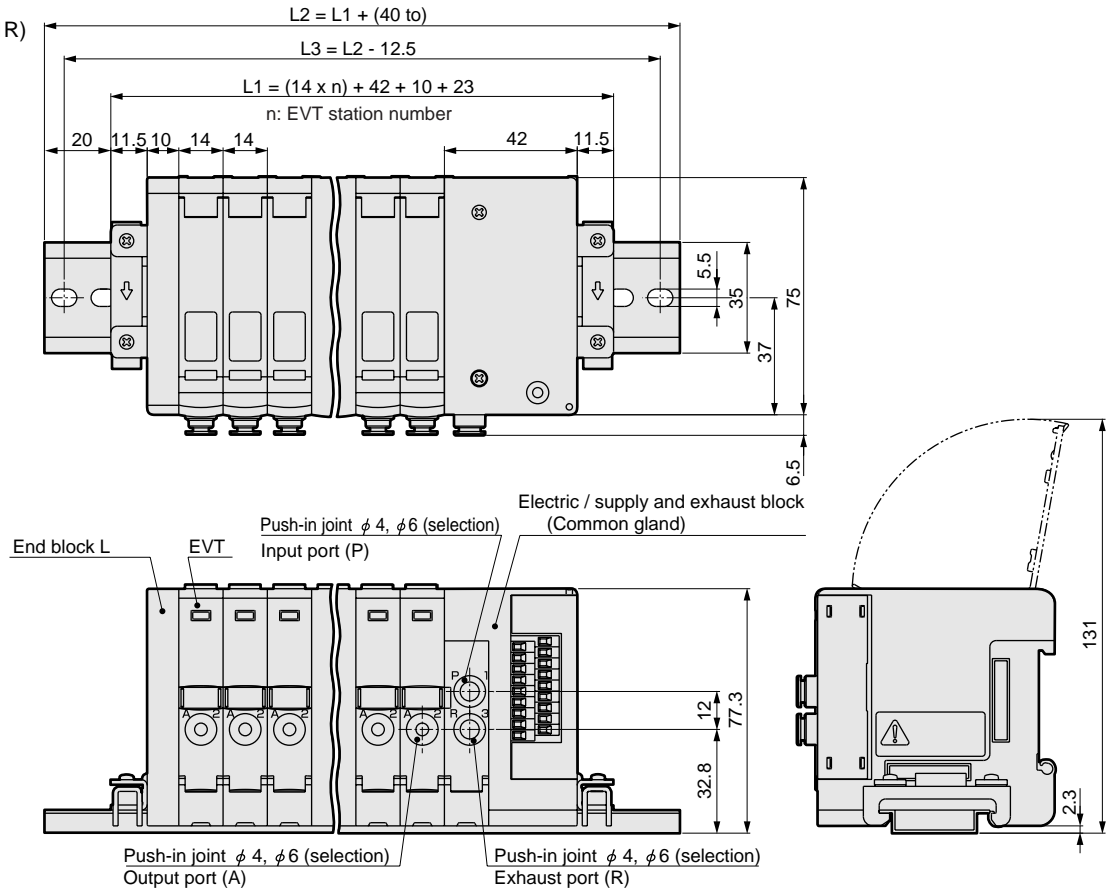
Thin electro pneumatic regulator
F.R.L. unit

MEVT-T1/3/9 Series

Dimensions

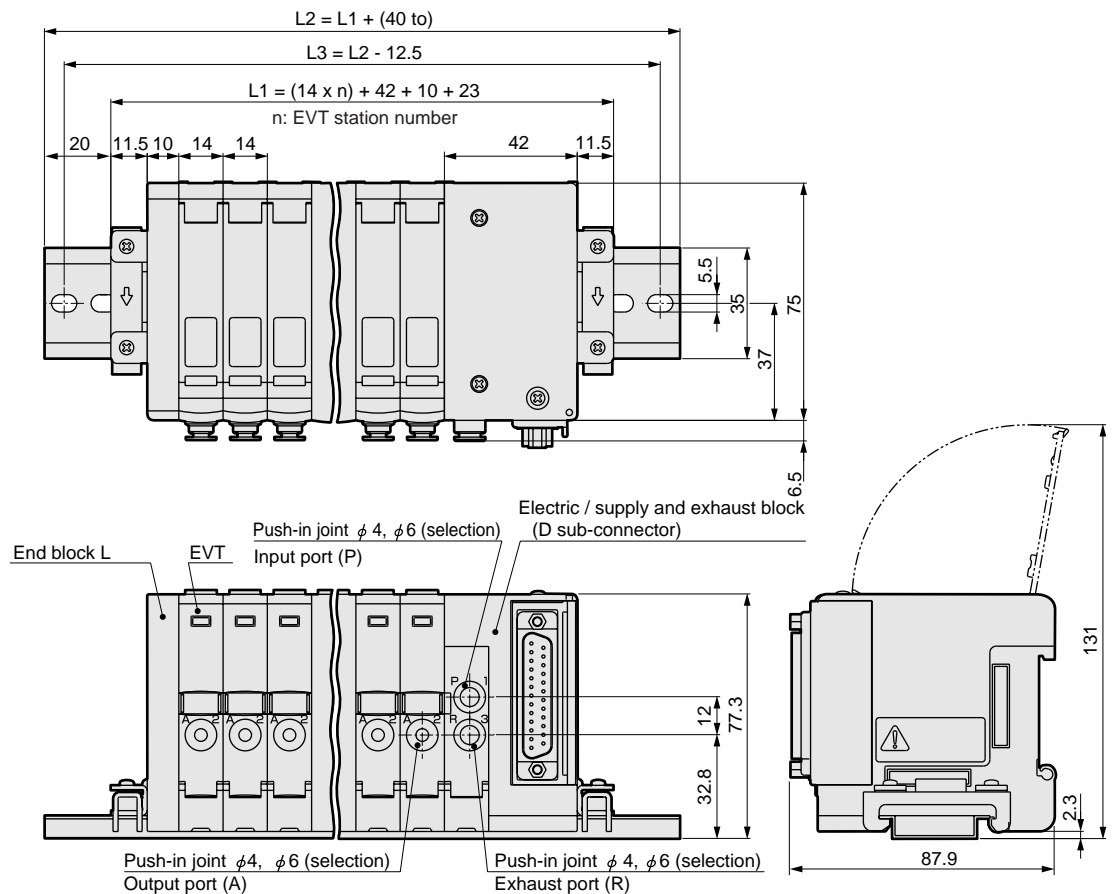
MEVT

● Common gland type (T11R)



MEVT

● D sub-connector type (T30R)

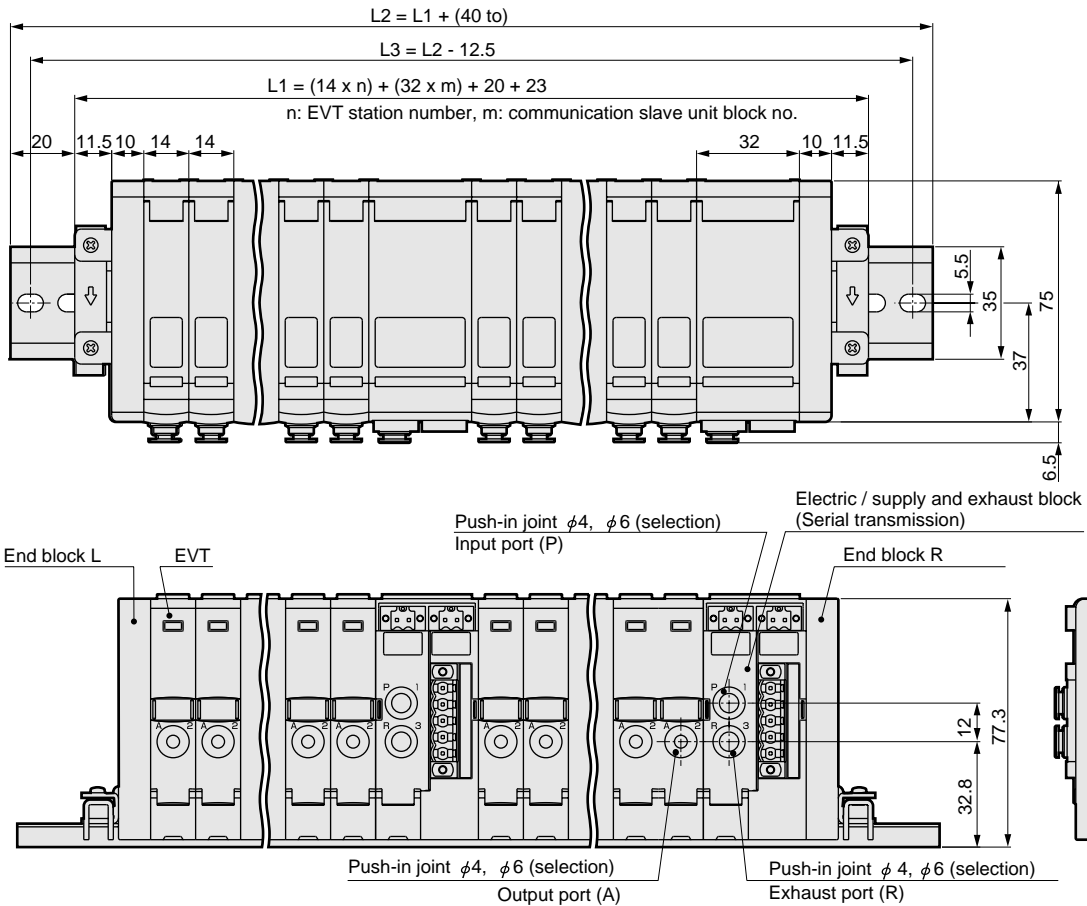
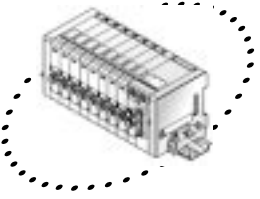


Refrigerating type dryer
Desiccant type dryer
High polymer membrane dryer
Air filter
Auto. drain / others
F.R.L (Module unit)
F.R.L (Separate)
Compact F.R.
Precise regulator
F.R.L (Related products)
Clean F.R.
Electro pneumatic regulator
Air booster
Speed control valve
Silencer
Check valve / others
Joint / tube
Vacuum filter
Vacuum regulator
Suction plate
Magnetic spring buffer
Mechanical pressure SW
Electronic pressure SW
Contact / close contact conf. SW
Air sensor
Pressure SW for coolant
Small flow sensor
Small flow controller
Flow sensor for air
Flow sensor for water
Total air system
Total air system (Gamma)
Ending

Dimensions

MEVT

- Serial transmission type (T9*)



1: The maximum number of stations for one slave unit is four (T9DAR/T9GAR) and eight (T9LOR).

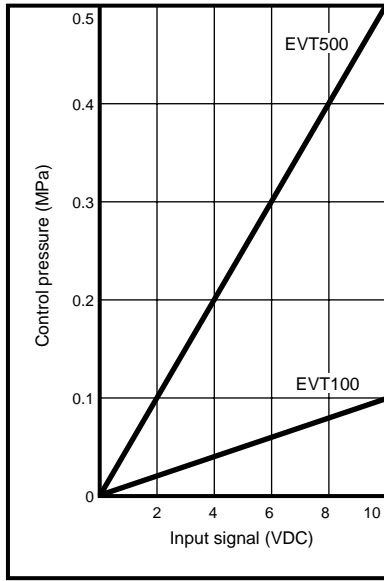
Refrigerating type dryer
Desiccant type dryer
High polymer membrane dryer
Air filter
Auto. drain / others
F.R.L. (Module unit)
F.R.L. (Separate)
Compact F.R.
Precise regulator
F.R.L. (Related products)
Clean F.R.
Electro pneumatic regulator
Air booster
Speed control valve
Silencer
Check valve / others
Joint / tube
Vacuum filter
Vacuum regulator
Suction plate
Magnetic spring buffer
Mechanical pressure SW
Electronic pressure SW
Contact / close contact cont. SW
Air sensor
Pressure SW for coolant
Small flow sensor
Small flow controller
Flow sensor for air
Flow sensor for water
Total air system
Total air system (Gamma)

Ending

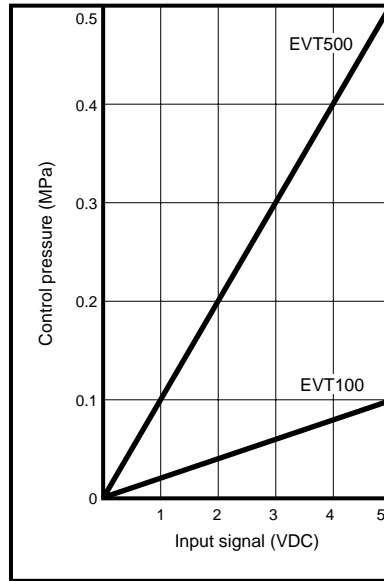
Thin electro pneumatic regulator
F.R.L. unit

I/O characteristics

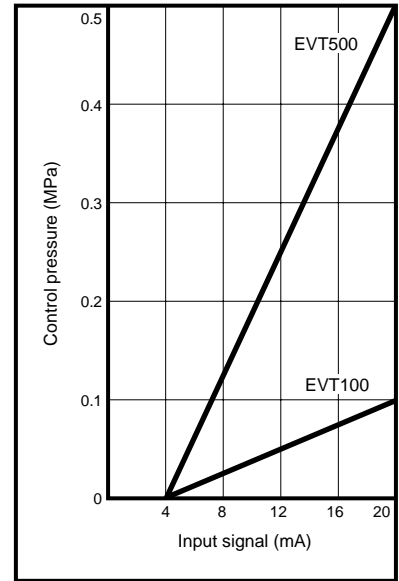
● Input signal 0-10 VDC



● Input signal 0-5 VDC

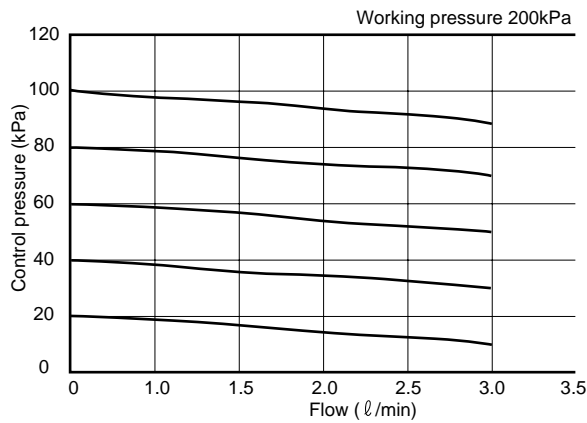


● Input signal 4-20mA

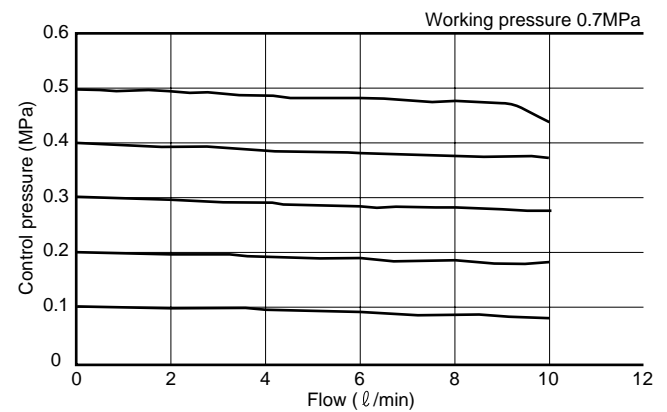


Flow characteristics

● EVT100



● EVT500



Refrigerating type dryer
Desiccant type dryer
High polymer membrane dryer
Air filter
Auto. drain / others
F.R.L (Module unit)
F.R.L (Separate)
Compact F.R.
Precise regulator
F.R.L (Related products)
Clean F.R.
Electro pneumatic regulator
Air booster
Speed control valve
Silencer
Check valve / others
Joint / tube
Vacuum filter
Vacuum regulator
Suction plate
Magnetic spring buffer
Mechanical pressure SW
Electronic pressure SW
Contact / close contact conf. SW
Air sensor
Pressure SW for coolant
Small flow sensor
Small flow controller
Flow sensor for air
Flow sensor for water
Total air system
Total air system (Gamma)
Ending

MEVT: block configurations

● Discrete EVT

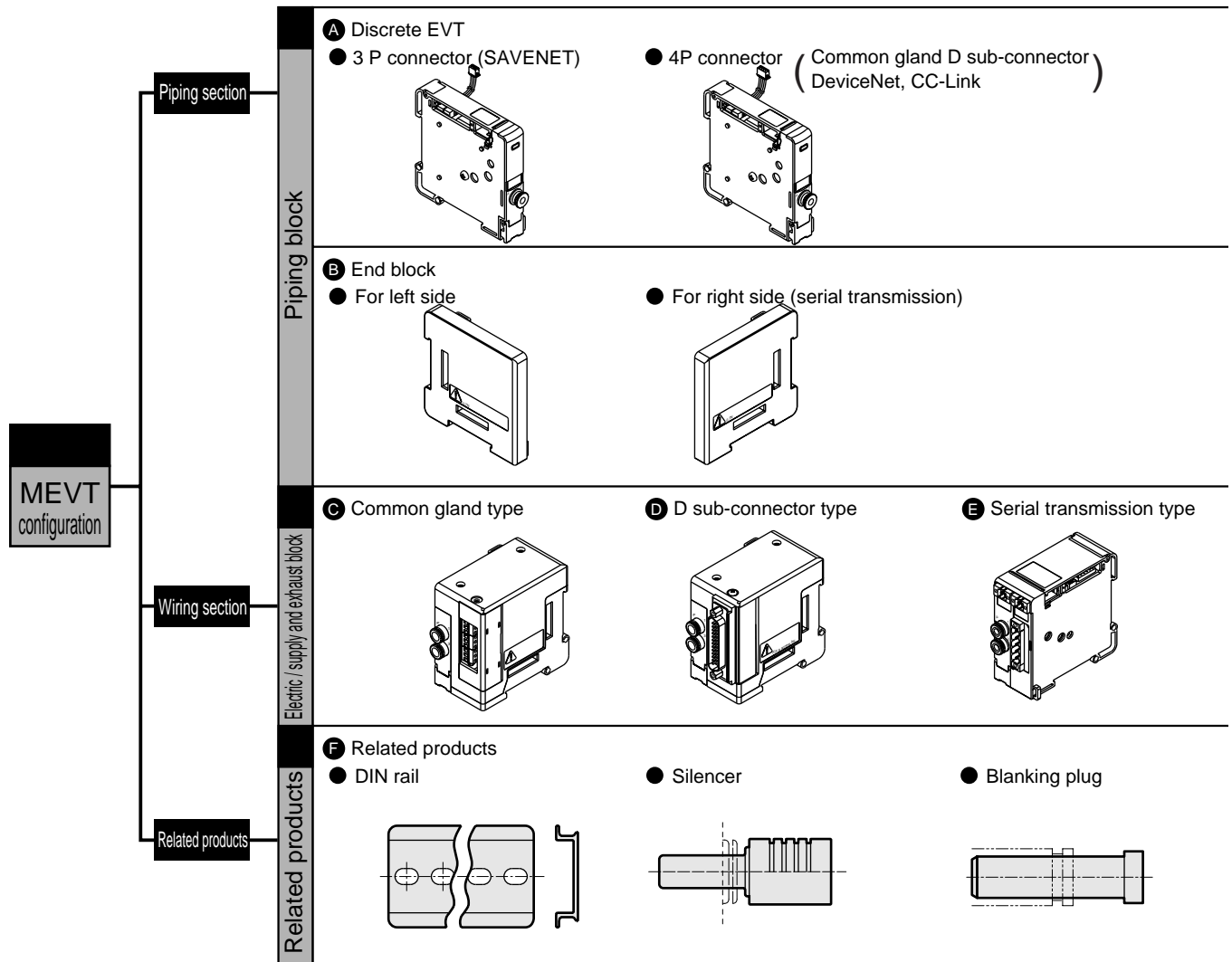
- (1) Required station No. of EVT can be placed on DIN rail.
However, the maximum station No. is limited by method. (Refer to page 804.)
- (2) Viewed from the joint, nominal station No. of EVT is assigned as 1, 2, 3, ... from right.
- (3) The REG-No. indicated on the EVT wiring cover is counted as 1, 2, 3, etc., from the nearest EVT for each electric and supply/exhaust block.

● Electric / supply and exhaust block

- (1) Required number can be placed onto the connecting section per block.

● End block

- (1) For serial transmission type, install the blocks to both sides.
- (2) If common gland or D sub connector type, install this block on the contrary side of electric / supply and exhaust block.



Piping section

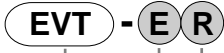
A. Discrete EVT

Refer to pages 804 to 805 for selection guide.

B. End block

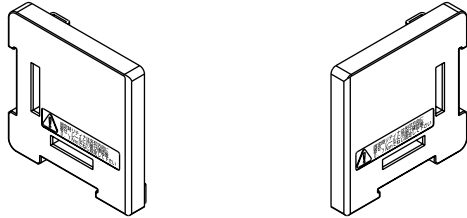
For serial transmission type (T9*), install the block to both ends of manifold.

For common gland type (T11R) or D sub connector type (T30R), install the block on the contrary side of electric / supply and exhaust block.



Model no. **A** Type **B** Installation position

A Type		B Installation position	
E	Common exhaust	L	For left side
		R	For right side (serial transmission)



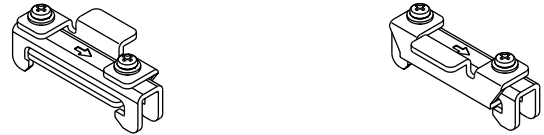
(Retainer)

Fix at both ends of manifold.



Model no. **A** Installation position

A Installation position	
L	For left side
R	For right side



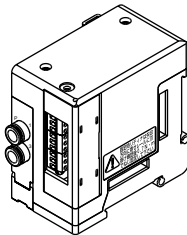
Electric / supply and exhaust block

C. Common gland type



Model no. Type **B** Input (P)/exhaust (R) port size

B Input (P)/exhaust (R) port size	
C4	φ 4 push-in joint
C6	φ 6 push-in joint

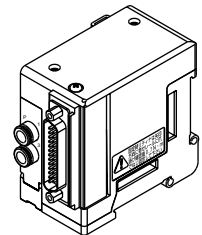


D. D sub-connector type



Model no. Type **B** Input (P)/exhaust (R) port size

B Input (P)/exhaust (R) port size	
C4	φ 4 push-in joint
C6	φ 6 push-in joint

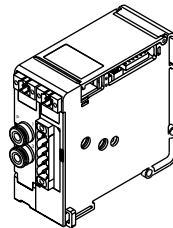


E. Serial transmission type



Model no. **A** Type **B** Input (P)/exhaust (R) port size

A Type		B Input (P)/exhaust (R) port size	
T9DAR	DeviceNet input 4 point/output 4 point	C4	φ 4 push-in joint
T9GAR	CC-Link Ver1.10 input 4 point/output 4 point	C6	φ 6 push-in joint
T9L0R	SAVE NET output 8 point		



- Refrigerating type dryer
- Desiccant type dryer
- High polymer membrane dryer
- Air filter
- Auto. drain / others
- F.R.L. (Module unit)
- F.R.L. (Separate)
- Compact F.R.
- Precise regulator
- F.R.L. (Related products)
- Clean F.R.
- Electro pneumatic regulator
- Air booster
- Speed control valve
- Silencer
- Check valve / others
- Joint / tube
- Vacuum filter
- Vacuum regulator
- Suction plate
- Magnetic spring buffer
- Mechanical pressure SW
- Electronic pressure SW
- Contact / close contact cont. SW
- Air sensor
- Pressure SW for coolant
- Small flow sensor
- Small flow controller
- Flow sensor for air
- Flow sensor for water
- Total air system
- Total air system (Gamma)

Ending

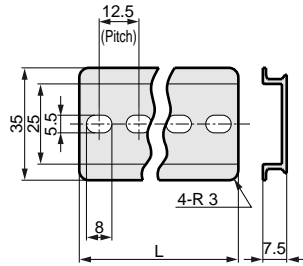
Thin electro pneumatic regulator
F.R.L. unit

Refrigerating type dryer
Desiccant type dryer
High polymer membrane dryer
Air filter
Auto. drain / others
F.R.L (Module unit)
F.R.L (Separate)
Compact F.R.
Precise regulator
F.R.L (Related products)
Clean F.R.
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Vacuum filter
Vacuum regulator
Suction plate
Magnetic spring buffer
Mechanical pressure SW
Electronic pressure SW
Contact / close contact cont. SW
Air sensor
Pressure SW for coolant
Small flow sensor
Small flow controller
Flow sensor for air
Flow sensor for water
Total air system
Total air system (Gamma)
Ending

Related products DIN rail, silencer and blanking plug

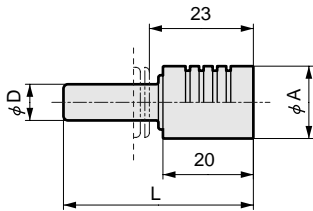
● DIN rail

EVT-BAA (length)



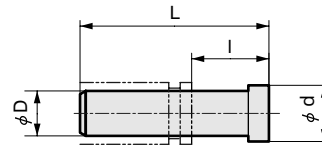
* Select <Length> from the DIN rail length selection table L₂ on page 824.

● Silencer



Model no.	D	L	A
SLW-H6	$\phi 6$	41	16

● Blanking plug



Model no.	D	L	l	d
GWP4-B	$\phi 4$	27	9	6
GWP6-B	$\phi 6$	29	11	8

Common gland type (T11R): Wiring method

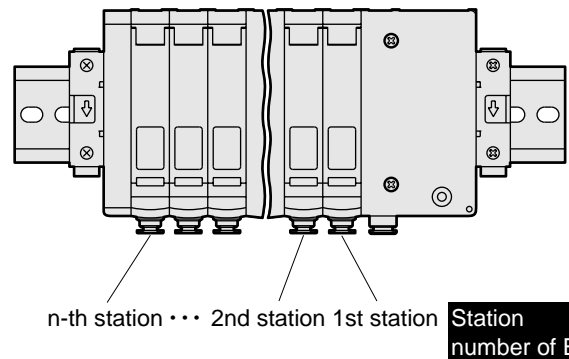
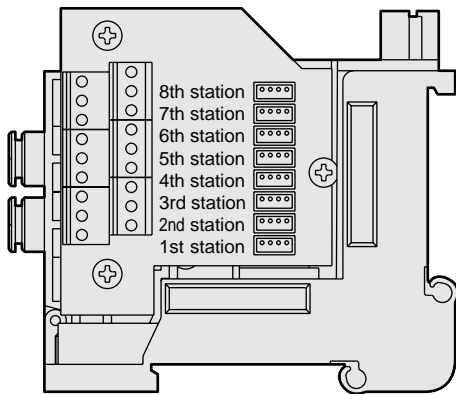
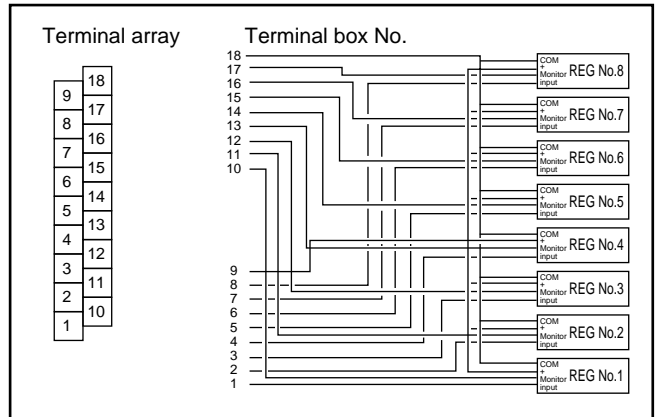
Notes when wiring

[Common gland type (T11R): Wiring method]

Viewed from piping port, station No. on EVT is **assigned from right**. If voltage may drop depending on simultaneous communication or cable length, 4 - 20mA of current type is recommended for input signal.

Terminal box recommended screw tightening torque 0.25N·m

Internal wiring method of T11R (up to 8 stations for EVT)



Terminal array of wiring method T11R

* Maximum station number of EVT is 8 stations.

		Terminal No.									
		18	17	16	15	14	13	12	11	10	
		9	8	7	6	5	4	3	2	1	
(Standard wiring)											
Terminal No.	18	17	16	15	14	13	12	11	10		
Terminal array	COM	Monitor output 8	Monitor output 7	Monitor output 6	Monitor output 5	Monitor output 4	Monitor output 3	Monitor output 2	Monitor output 1		
Terminal No.	9	8	7	6	5	4	3	2	1		
Terminal array	Power supply +	Input signal 8	Input signal 7	Input signal 6	Input signal 5	Input signal 4	Input signal 3	Input signal 2	Input signal 1		

- Refrigerating type dryer
- Desiccant type dryer
- High polymer membrane dryer
- Air filter
- Auto. drain / others
- F.R.L. (Module unit)
- F.R.L. (Separate)
- Compact F.R.
- Precise regulator
- F.R.L. (Related products)
- Clean F.R.
- Electro pneumatic regulator
- Air booster
- Speed control valve
- Silencer
- Check valve / others
- Joint / tube
- Vacuum filter
- Vacuum regulator
- Suction plate
- Magnetic spring buffer
- Mechanical pressure SW
- Electronic pressure SW
- Contact / close contact cont. SW
- Air sensor
- Pressure SW for coolant
- Small flow sensor
- Small flow controller
- Flow sensor for air
- Flow sensor for water
- Total air system
- Total air system (Gamma)

Thin electro pneumatic regulator F.R.L. unit

D sub-connector type (T30R): Wiring method

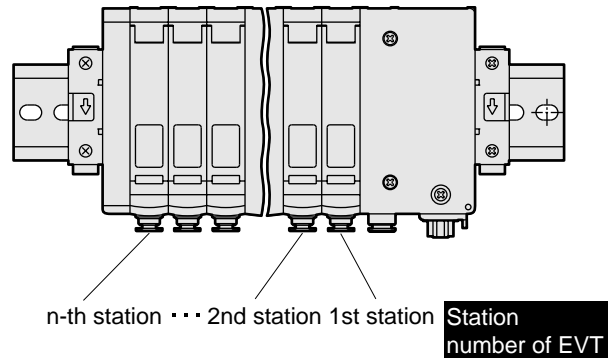
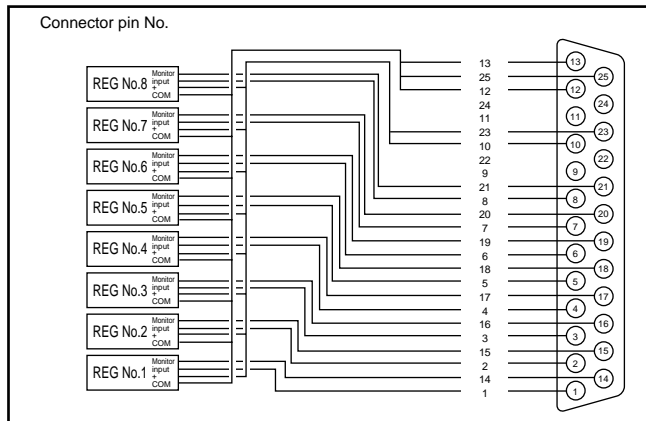
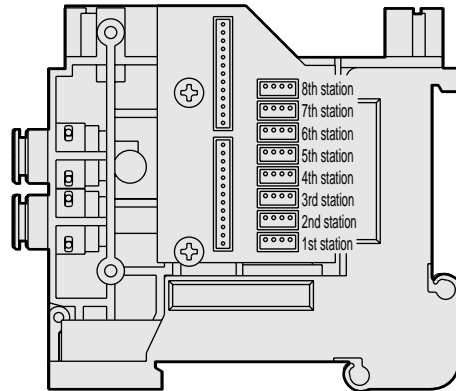
D sub-connector type (T30R)

A connector used for wiring method T30R, is generally called as D sub connector and widely used in FA and OA components. Especially, 25P type complying RS-232C standards is a dedicating connector widely used in PC communication board.

[Cautions for D sub connector type (T30R)]

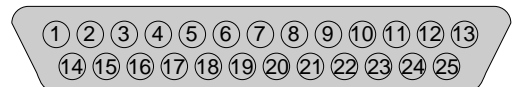
Viewed from piping port, station No. on EVT is **assigned from right**.

If voltage may drop depending on simultaneous communication or cable length, 4 - 20mA of current type is recommended for input signal.



Connector pin array of wiring method T30R

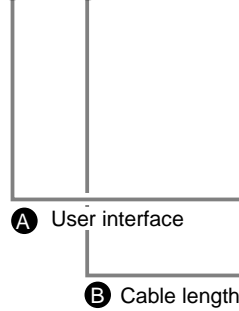
* Maximum station number of EVT is 8 stations.



Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13
Pin array	Input signal 1	Input signal 2	Input signal 3	Input signal 4	Input signal 5	Input signal 6	Input signal 7	Input signal 8	(Void)	Power supply +	(Void)	COM	COM
Pin No.	14	15	16	17	18	19	20	21	22	23	24	25	
Pin array	Monitor output 1	Monitor output 2	Monitor output 3	Monitor output 4	Monitor output 5	Monitor output 6	Monitor output 7	Monitor output 8	(Void)	Power supply +	(Void)	COM	

How to order cable with D-sub connector

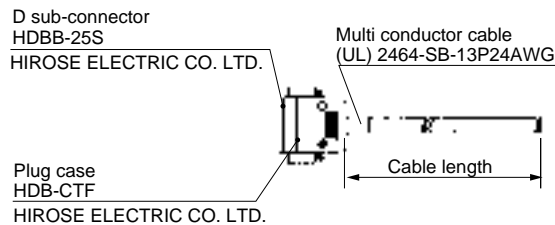
EVT - **CABLE** - **D00** - **1**



		Model
		EVT
A	Symbol	
	0	Only cut
	1	With round terminal for M3.5 screw
B	1	1m
	3	3m
	5	5m

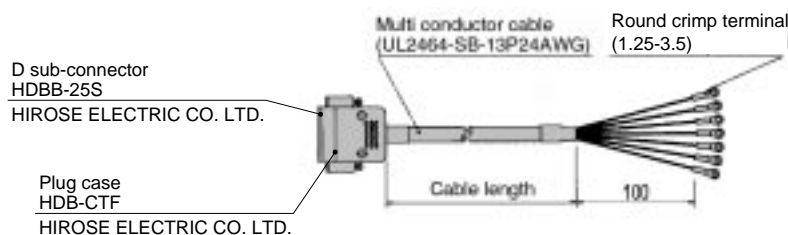
D sub-connector pin No. and conductor

● EVT-CABLE-D00-**B**



D sub-connector pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	
Conductor I.D.	Isolator color	Yellow	Green	Gray	White	Yellow	Green	Gray	White	Yellow	Orange	Green	Orange	Orange
	Mark type	1 point	1 point	1 point	1 point	2 points	2 points	2 points	2 points	3 points	1 point	3 points	1 point	2 points
	Mark color	Black	Black	Black	Black	Black	Black	Black	Black	Black	Red	Black	Black	Black
D sub-connector pin No.	14	15	16	17	18	19	20	21	22	23	24	25		
Conductor I.D.	Isolator color	Yellow	Green	Gray	White	Yellow	Green	Gray	White	Yellow	Orange	Orange	Orange	
	Mark type	1 point	1 point	1 point	1 point	2 points	2 points	2 points	2 points	3 points	2 points	3 points	3 points	
	Mark color	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Black	

● EVT-CABLE-D01-**B**



D sub-connector pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	
Conductor I.D.	Isolator color	Yellow	Green	Gray	White	Yellow	Green	Gray	White	Yellow	Orange	Green	Orange	Orange
	Mark type	1 point	1 point	1 point	1 point	2 points	2 points	2 points	2 points	3 points	1 point	3 points	1 point	2 points
	Mark color	Black	Black	Black	Black	Black	Black	Black	Black	Black	Red	Black	Black	Black
Mark tube No.	1	2	3	4	5	6	7	8	Cut	10	Cut	12	13	
D sub-connector pin No.	14	15	16	17	18	19	20	21	22	23	24	25		
Conductor I.D.	Isolator color	Yellow	Green	Gray	White	Yellow	Green	Gray	White	Yellow	Orange	Orange	Orange	
	Mark type	1 point	1 point	1 point	1 point	2 points	2 points	2 points	2 points	3 points	2 points	3 points	3 points	
	Mark color	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Black	
Mark tube No.	14	15	16	17	18	19	20	21	Cut	23	Cut	25		

- Refrigerating type dryer
- Desiccant type dryer
- High polymer membrane dryer
- Air filter
- Auto. drain / others
- F.R.L. (Module unit)
- F.R.L. (Separate)
- Compact F.R.
- Precise regulator
- F.R.L. (Related products)
- Clean F.R.
- Electro pneumatic regulator
- Air booster
- Speed control valve
- Silencer
- Check valve / others
- Joint / tube
- Vacuum filter
- Vacuum regulator
- Suction plate
- Magnetic spring buffer
- Mechanical pressure SW
- Electronic pressure SW
- Contact / close contact cont. SW
- Air sensor
- Pressure SW for coolant
- Small flow sensor
- Small flow controller
- Flow sensor for air
- Flow sensor for water
- Total air system
- Total air system (Gamma)

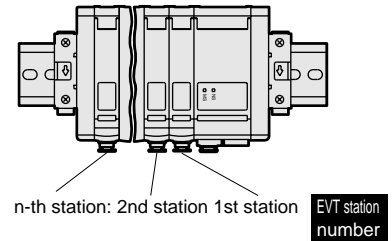
Ending

Thin electro pneumatic regulator
F.R.L. unit

Serial transmission type (T9*): Wiring method

[Serial Transmission type (T9*)]

- The slave unit's output No. differs with the maker. The internal connector No. and EVT correspond as shown below.
- EVT station are set in order from the right facing the piping port regardless of wiring block supply/exhaust block positions.
- Since internal connectors are wired in order, if there are fewer EVT stations than total connectors, some connectors are left open. Do not use these open connectors for drives other than EVTs in use.
- Do not remove protective connectors connected to void connectors or a failure may occur.
- The working power is 24VDC.
- The slave for each communication system is used. Consult with CKD for compatible PC and host station models and communication system specifications. (Refer to page 819)
- To ensure network reliability, use the communication cable recommended for each communication system.
- Securely fix the enclosed connector with set screw. (Refer to the right table)
- The USB power supply terminal is exclusively used as a crossover wire. When using independently, use only the MAIN power supply terminal. Do not apply power on both SUB and MAIN power supply terminals because a malfunction could occur.
- MAIN and SUB power terminals are connected internally. When not using the SUB power terminal, connect the enclosed connector to prevent short-circuiting.

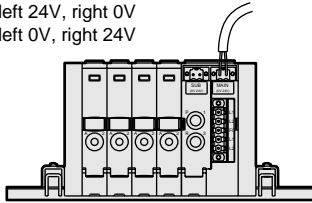


	Cable set screw	Connector set screw
Power supply connector	0.25N-m	0.4N-m
Communication connector	0.5N-m	

[Wiring power cable]

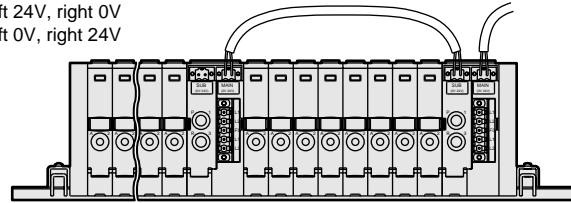
When using one wiring block (electric, supply and exhaust block)
Connect the power cable to MAIN.

* Check power polarity.
T9DAR/T9GAR: left 24V, right 0V
T9LOR : left 0V, right 24V



When using more than one wiring block (electric, supply/exhaust block)
Connect one power cable to the first MAIN, and then from SUB to the next MAIN.

* Check power polarity.
T9DAR/T9GAR: left 24V, right 0V
T9LOR : left 0V, right 24V



* The above drawing shows the T9LOR. See the table below for the number of EVT stations.

EVT maximum station number

Slave unit (electric, supply and exhaust block) model no.	Communication system name	EVT maximum station number		
		When using 1 slave unit	When using 2 slave units	When using 3 slave units
T9DAR	DeviceNet	4 units	8 units	12 units
T9GAR	CC-Link	4 units	8 units	12 units
T9LOR	SAVE NET	8 units	16 units	24 units

Up to three slave units can be connected per manifold.

Correspondence of wiring method T9* channel no. and connector no.

T9DAR				
Channel No. (Pressure setting data)	0 (1)	1 (2)	2 (3)	3 (4)
Channel No. (Pressure monitor data)	0 (1)	1 (2)	2 (3)	3 (4)
Connector No. (REG No.) (EVT station number)	1	2	3	4

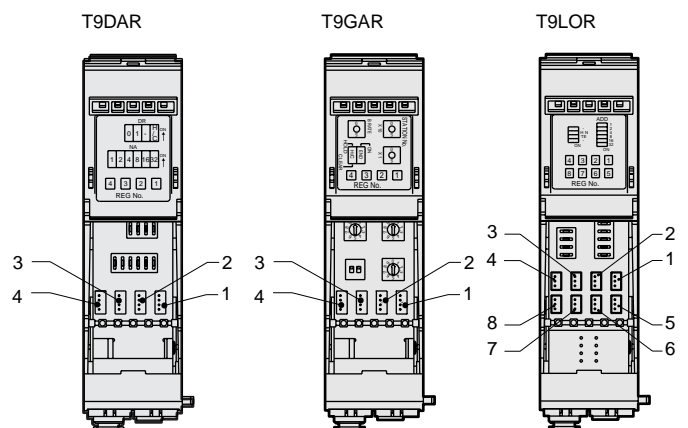
* The channel No. may be counted from "1" depending on the master.

T9GAR				
Channel No. (Pressure setting data)	1	2	3	4
Channel No. (Pressure monitor data)	1	2	3	4
Connector No. (REG No.) (EVT station number)	1	2	3	4

T9LOR								
Channel No. (Pressure setting data)	0	1	2	3	4	5	6	7
Connector No. (REG No.) (EVT station number)	1	2	3	4	5	6	7	8

* T9LOR does not have pressure monitor data.

Internal connector No.



Serial transmission slave unit specifications (See the table below for the applicable PLC correspondence table)

Descriptions	T9DAR	T9GAR	T9LOR
Communication subject	DeviceNet *1	CC-Link Ver1.10 *2	SAVENET
Communication speed	125kbps/250kbps/500kbps	156kbps/625kbps/2.5Mbps/ 5Mbps/10Mbps	3Mbps (half duplex)
Power voltage	24 VDC ±10% *3 (Unit power supply, regulator power supply common terminal) Communication power supply (V+, V-): 11 to 25 VDC	24 VDC ±10% *3 (Unit power supply, regulator power supply common terminal)	
Current consumption	60mA or less Load current is not included Communication power supply (V+, V-): 50mA or less	80mA or less Load current is not included	60mA or less Load current is not included
Max. output no. (DA output)	4 points		8 point
Max. input no. (AD input)	4 points		-
DA output	Pressure setting data	12 bit	
	Precision *4	±1%F.S. or less	
AD input	Pressure monitor data	12 bit	
	Precision *5	±6%F.S. or less	
Occupied	Occupied output memory: 2 x n (byte) *6 Occupied input memory: 2 x n (byte) *6	Occupied unit No.: 1 station (Remote device station)	Occupied address number: 1 address

*1 Consult with CKD for EDS file .

*2 Consult with CKD for profile.

*3 To secure output accuracy, use safety power supply with 1% or less of ripple ratio.

*4 DA output accuracy does not include EVT accuracy.

*5 AD input accuracy includes EVT monitor accuracy.

*6 The slave unit's memory occupied by the PLC is determined by the number of EVT units (n) connected when the slave unit's power is turned on.
(Note that if no units are connected, the memory for four units is occupied)

PLC table

Model no.	Maker name (progress body)	Series	Communication system name	Host station model no.
T9DAR	ODVA	Each Corp. DeviceNet compatible PLC, PC, SBC	DeviceNet	Connect to each maker's DeviceNet compatible master
	OMRON	SYSMAC CS Series SYSMAC CJ Series SYSMAC CV Series SYSMAC Series SYSMAC C200HS Series Other sensors	DeviceNet (CompoBus/D)	Type CS1W-DRM21-V1 Type CJ1W-DRM21 Type CVM1-DRM21-V1 Type C200HW-DRM21-V1 Type ITNC-EI*01-DRM (master integrated PLC) Type 3G8B3-DRM21 (VME board) Other DeviceNet compatible master
	TOYODA	PC3J/2J Series PC3JD PC2F/PC2FS	DeviceNet (DLNK)	THK-5398 TIC-5642 (master integrated PLC) TFU-5359 Other DeviceNet compatible master
T9GAR	CLPA	Each Corp. CC-Link compatible PLC, PC, SBC	CC-Link	Connect to each maker's CC-Link compatible master
	MITSUBISHI	MELSEC A Series MELSEC QnA Series MELSEC Q Series Other sensors	CC-Link	AJ61BT11 AJ61QBT11 A1SJ61BT11 A1SJ61QBT11 QJ61BT11 A80BD-J61BT11 (PCI bus) Other CC-Link master
T9LOR	CKD Corporation ONE company	Compatible with PC, SBC, each Corp. PLC Consult with CKD for details.	SAVE NET	CSN-1001-PC/AT-MA *1 CSN-1002-PC/AT-MA *1 CSN-1001-PCIMA-A *1 CSN-1002-PCIMA *1 CSN-1001-CAMA *1 Other SAVENET compatible interface *1

*1: Be sure to confirm that master driver software is compatible with the 8-channel D/A converter when using T9LOR with SAVENET.

Refrigerating type dryer
 Desiccant type dryer
 High polymer membrane dryer
 Air filter
 Auto. drain / others
 F.R.L. (Module unit)
 F.R.L. (Separate)
 Compact F.R.
 Precise regulator
 F.R.L. (Related products)
 Clean F.R.
 Electro pneumatic regulator
 Air booster
 Speed control valve
 Silencer
 Check valve / others
 Joint / tube
 Vacuum filter
 Vacuum regulator
 Suction plate
 Magnetic spring buffer
 Mechanical pressure SW
 Electronic pressure SW
 Contact / close contact conf. SW
 Air sensor
 Pressure SW for coolant
 Small flow sensor
 Small flow controller
 Flow sensor for air
 Flow sensor for water
 Total air system
 Total air system (Gamma)
 Ending
 Thin electro pneumatic regulator
 F.R.L. unit

- Refrigerating type dryer
- Desiccant type dryer
- High polymer membrane dryer
- Air filter
- Auto. drain / others
- F.R.L (Module unit)
- F.R.L (Separate)
- Compact F.R.
- Precise regulator
- F.R.L (Related products)
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- Silencer
- Check valve / others
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- Vacuum regulator
- Suction plate
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- Mechanical pressure SW
- Electronic pressure SW
- Contact / close contact conf. SW
- Air sensor
- Pressure SW for coolant
- Small flow sensor
- Small flow controller
- Flow sensor for air
- Flow sensor for water
- Total air system
- Total air system (Gamma)
- Ending

Model no. T9DAR

NS
 MS

LED name	Display content
NS	Displays network status
MS	Displays slave unit's status

Wiring and setting method

Wiring method

The wiring section connector is included. Check power's polarity. (Left: 24 V, right: 0 V)
Unit power and regulator power use a common terminal. The power connector (24 V, 0 V) is insulated from communication power (V+, V-).

How to set

DR (Communication speed)

0	1	CLEAR	ON
---	---	-------	----

Set the communication speed.

HOLD (Output status)

1	2	4	8	16	32	ON
---	---	---	---	----	----	----

Set output status if a communication error occurs.

NA (Slave unit address)

1	2	4	8	16	32	ON
---	---	---	---	----	----	----

Set the slave unit address.

Communication speed	0	1
125kbps	OFF	OFF
250kbps	ON	OFF
500kbps	OFF	ON
Setting not available	ON	ON

Setting HOLD/CLEAR

- ◆ **HOLD**
If a communication error occurs, the status of output is held in the state just before the error occurred. (Only for set addresses)
Note: Output may not be held depending on the state of the error.
- ◆ **CLEAR**
If a communication error occurs, all channels are turned off (0 data output to EVT). (Only for set addresses)

⚠ Cautions

- Output to EVT is output simultaneously for all channels.
- Refer to the slave unit specifications for details on occupied memory.
- Contact CKD for information on the EDS file.

Model no. T9GAR

LERR
 LRUN
 RD
 SD
 POWER

LED name	Display content
LERR	Lights when transmission error occurs. Turns off when time has lapsed. Lights when the station No. setting or transmission speed setting is incorrect. Blinks when the station number setting or transmission speed setting changes midway.
LRUN	Turns on when accuracy data is received, and turns off when time has lapsed. (Lights when correct data is received.)
RD	Turns on when receiving data.
SD	Turns on when sending data.
POWER	Lights when power is ON.

Wiring and setting method

Wiring method

The wiring section connector is included. Check power's polarity. (Left: 24 V, right: 0 V)
Unit power and regulator power use a common terminal. SLD and FG are short-circuited in the slave unit.

How to set

Set the transmission speed.

0: 156kbps 3: 5Mbps
1: 625kbps 4: 10Mbps
2: 2.5Mbps 5: setting not available

B RATE

STATION No. (X 1)

HOLDEND

ON

CLEAR

Terminal station setting

Set output status if a communication error occurs.

STATION No. (X 10)

Set the slave unit's station No. (1st place)

Setting HOLD/CLEAR

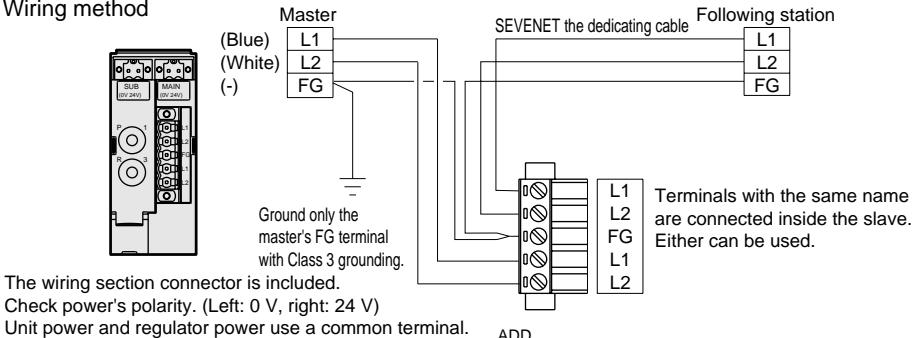
- ◆ **HOLD**
When the "analog output enabling signal" flag turns off, output of the corresponding channel is held in the status just before the flag turned off.
If a communication error occurs, the status of output is held in the state just before the error occurred. (Only for set addresses)
Note: Output may not be held depending on the state of the error.
- ◆ **CLEAR**
When the "analog output enabling signal" flag turns off, all channels are turned off (0 data output to EVT).
If a communication error occurs, all channels are turned off (0 data output to EVT). (Only for set addresses)

Terminal station setting

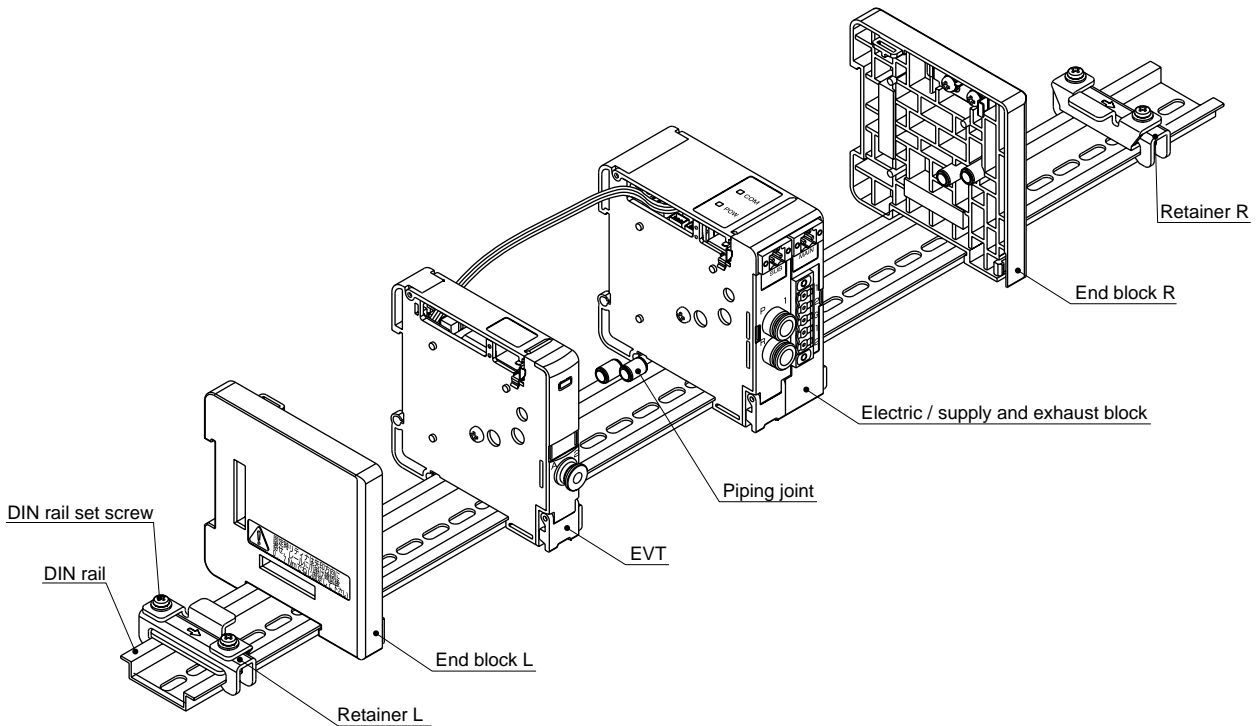
This product has a 110 Ω terminator between DA and DB communication lines. The terminal station is set by turning the terminal station setting switch on. A terminator need not be connected to this product's connector.
<CAUTION>
Be sure to turn the terminal station setting switch off when this product is the terminal station and a CC-Link-dedicated cable (CC-Link dedicated high performance cable (Kurashige Denko FANC-SBH) requiring a terminal resistance other than 110 Ω is used for the communication cable. This also applies when the terminator's connection differs due to the T-branch connection. Connect a commercially available terminator or the one included with the master station to this product's connector based on connection conditions (specifications). Insulate this terminator.

⚠ Cautions

- Output to EVT is output simultaneously for all channels.
- Consult with CKD for information on PRO files.

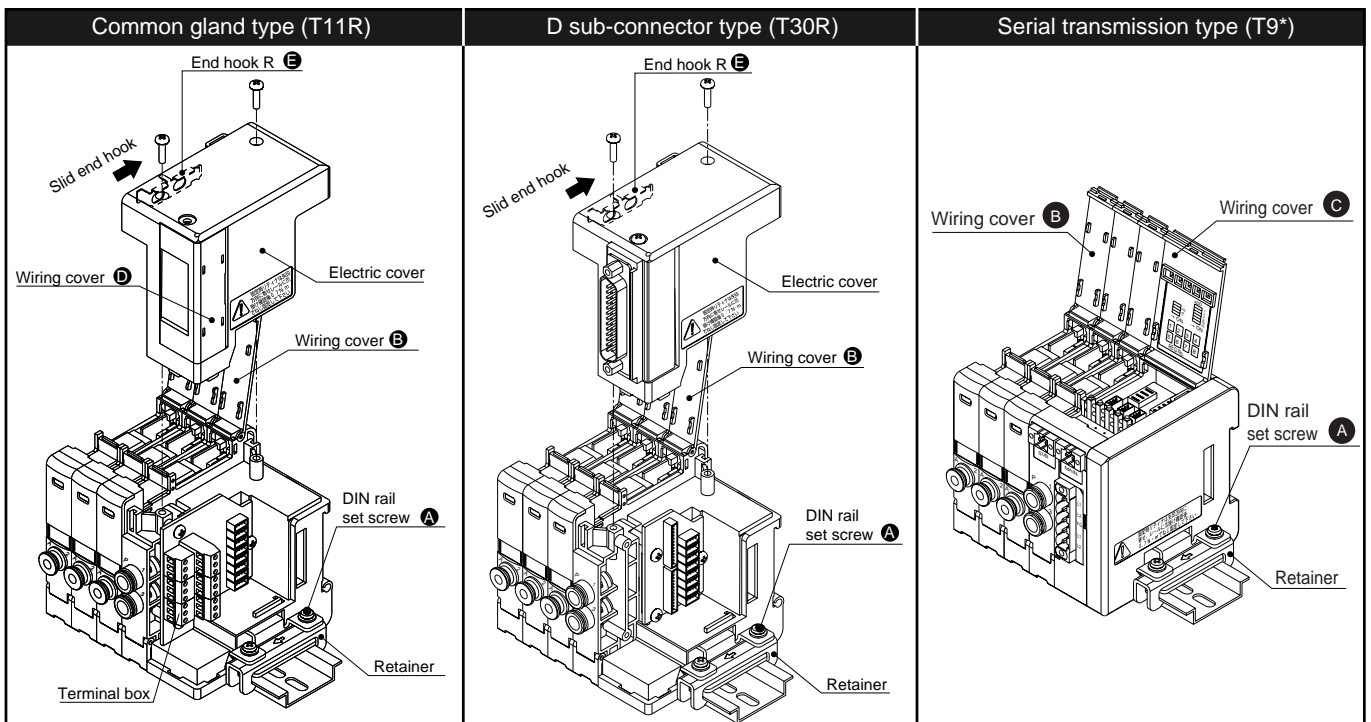
Model no.	LED display	Wiring and setting method	
T9LOR	<div style="border: 1px solid black; padding: 10px; width: 100px; margin: 0 auto;"> <input type="checkbox"/> COM <input type="checkbox"/> POW </div>	<p>Wiring method</p>  <p>The wiring section connector is included. Check power's polarity. (Left: 0 V, right: 24 V) Unit power and regulator power use a common terminal.</p> <p>How to set</p> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px;"> <p>H: HOLD H N: N ON HOLD</p> <p>TE: Terminal station setting</p> <p>→ ON</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>ADD</p> <p>1 2 4 8 16 32</p> <p>Set the address.</p> <p>→ ON</p> </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; width: 45%;"> <p style="text-align: center;">Setting HOLD/N ON HOLD</p> <ul style="list-style-type: none"> ◆ HOLD When a system error or line error, etc., occurs, the slave unit's state before the error is held. (For set address only) ◆ N ON HOLD Output of stations with the above error is released. (For set address only) ◆ The set is in HOLD at shipping. </div> <div style="border: 1px solid black; padding: 5px; width: 45%;"> <p style="text-align: center;">Terminator setting</p> <ul style="list-style-type: none"> ◆ Set the end station to the ON side. ◆ The end station setting also function as the switch of terminating resistance. Set only the slave unit farthest the master units as the end station. Note that the end station is not related to the set address. If it is not set, problems could occur. </div> </div> <p>⚠ Cautions</p> <ul style="list-style-type: none"> ● SAVENET sends data for one channel with one scan. Multiple channels cannot be output at the same timing. ● Be sure to confirm that master driver software is compatible with the 8-channel D/A converter when using T9LOR with SAVENET. 	<p>Refrigerating type dryer</p> <p>Desiccant type dryer</p> <p>High polymer membrane dryer</p> <p>Air filter</p> <p>Auto. drain / others</p> <p>F.R.L. (Module unit)</p> <p>F.R.L. (Separate)</p> <p>Compact F.R.</p> <p>Precise regulator</p> <p>F.R.L. (Related products)</p> <p>Clean F.R.</p> <p>Electro pneumatic regulator</p> <p>Air booster</p> <p>Speed control valve</p> <p>Silencer</p> <p>Check valve / others</p> <p>Joint / tube</p> <p>Vacuum filter</p> <p>Vacuum regulator</p> <p>Suction plate</p> <p>Magnetic spring buffer</p> <p>Mechanical pressure SW</p> <p>Electronic pressure SW</p> <p>Contact / close contact cont. SW</p> <p>Air sensor</p> <p>Pressure SW for coolant</p> <p>Small flow sensor</p> <p>Small flow controller</p> <p>Flow sensor for air</p> <p>Flow sensor for water</p> <p>Total air system</p> <p>Total air system (Gamma)</p> <p>Ending</p>

MEVT deal drawing



Increasing and reducing the EVT stations

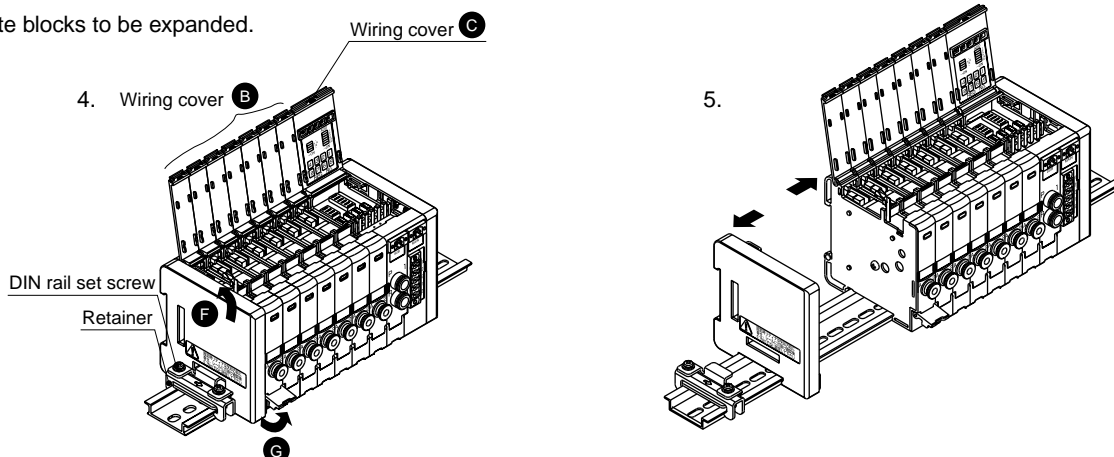
1. Loosen the retainer's DIN rail set screw **(A)**.
2. Open the EVT wiring cover **(B)**.
3. When using the common gland or D-sub connector, slide end hook R **(E)** and release the hook. Next, loosen and remove screws on the electric cover. For serial transmission, open the wiring cover **(C)**. (For common gland, check that the wiring cover **(D)** does not catch the gland.)



Refrigerating type dryer
Desiccant type dryer
High polymer membrane dryer
Air filter
Auto. drain / others
F.R.L. (Module unit)
F.R.L. (Separate)
Compact F.R.
Precise regulator
F.R.L. (Related products)
Clean F.R.
Electro pneumatic regulator
Air booster
Speed control valve
Silencer
Check valve / others
Joint / tube
Vacuum filter
Vacuum regulator
Suction plate
Magnetic spring buffer
Mechanical pressure SW
Electronic pressure SW
Contact / close contact conf. SW
Air sensor
Pressure SW for coolant
Small flow sensor
Small flow controller
Flow sensor for air
Flow sensor for water
Total air system
Total air system (Gamma)
Ending

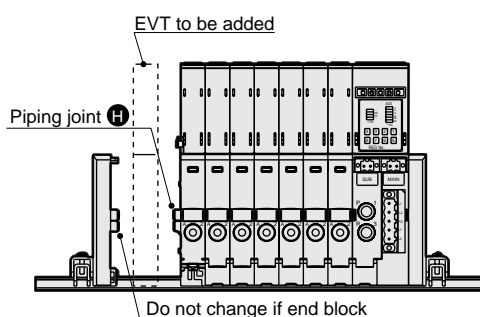
4. Remove the connecting hook spring **F** and connecting hook plate **G** where the manifold is to be increased, and remove the connection between blocks.

5. Separate blocks to be expanded.

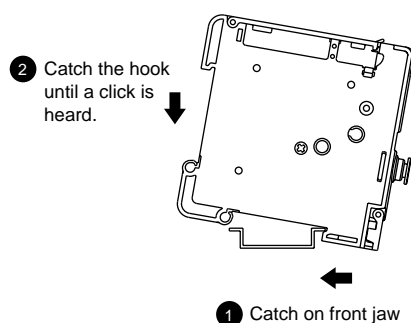


6. Insert two piping joints **H** into the input (P) and exhaust (R) ports at the separated section.

(Note: At the separated section, two piping joints **H** protrude from each side (4 joints in all)).



7. Mount the EVT to be added to the DIN rail.



8. Press so that there is no gap between blocks, and close the connecting hook spring **F** and connecting hook plate **G** to connect blocks.

9. Insert signal wires for the expanded EVT to connectors in the wiring and supply/exhaust block.

10. For serial transmission, close the wiring cover **C**. When using the common gland or D-sub connector, fit the electric cover on, fix it in place with screws, and return the end hook R **E** to the original position.

(Tightening torque: 0.35 to 0.5N·m)

11. Close wiring cover **B** while taking care not to catch signal wires.

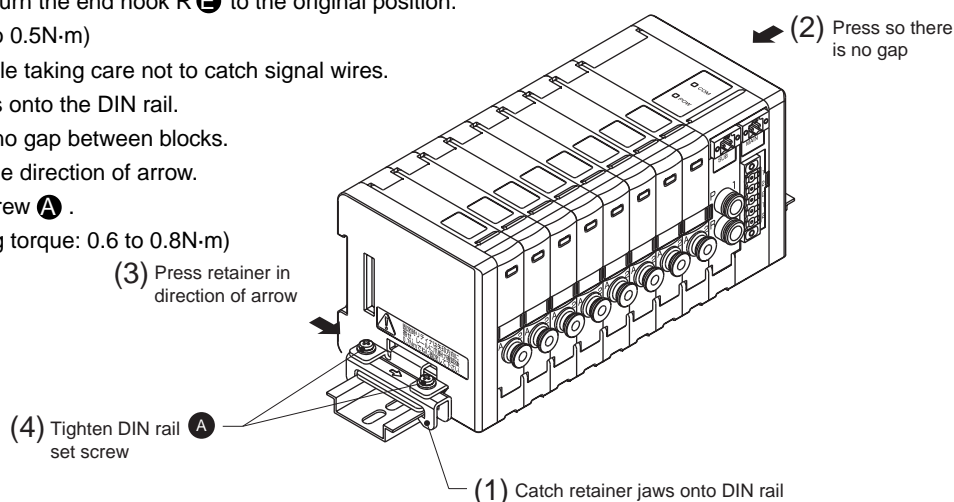
12. (1) Catch the retainer jaws onto the DIN rail.

(2) Press so that there is no gap between blocks.

(3) Press the retainer in the direction of arrow.

(4) Tighten DIN rail set screw **A**.

(Recommended tightening torque: 0.6 to 0.8N·m)



Refrigerating type dryer
Desiccant type dryer
High polymer membrane dryer
Air filter
Auto. drain / others
F.R.L. (Module unit)
F.R.L. (Separate)
Compact F.R.
Precise regulator
F.R.L. (Related products)
Clean F.R.
Electro pneumatic regulator
Air booster
Speed control valve
Silencer
Check valve / others
Joint / tube
Vacuum filter
Vacuum regulator
Suction plate
Magnetic spring buffer
Mechanical pressure SW
Electronic pressure SW
Contact / close contact cont. SW
Air sensor
Pressure SW for coolant
Small flow sensor
Small flow controller
Flow sensor for air
Flow sensor for water
Total air system
Total air system (Gamma)
Ending

MEVT How to complete manifold specification sheet (Ver. 2)

● Manifold model no. (example)

MEVT 500 - 0 - C4 T9L0R - 20 - U - 3

Model no. **A** Pressure control range **B** Control input signal **C** Port size **D** Electric / supply and exhaust block **F** Station number **G** DIN rail installation attitude **H** Voltage

Part name	Model no.	Layout																															Quantity		
		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	31			
EVT	EVT 500 - 0 - C4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20	
	EVT																																		
	EVT																																		
	EVT																																		
	EVT																																		
Electric / supply and exhaust block	EVT-T 9L0 R- C4						<input type="checkbox"/>										<input type="checkbox"/>										<input type="checkbox"/>							3	
End block	EVT-EL (for left side)	<input type="checkbox"/>																																1	
	EVT-ER (for right side)																										<input type="checkbox"/>							1	
DIN rail	L2 =	Attached part	Blanking plug				Silencer																												
			GWP4-B				GWP6-B				SLW-H6																								

*1 DIN rail length (L2)

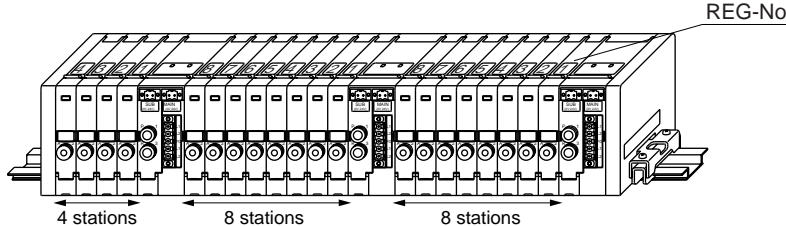
- Find DIN rail length by the calculation shown below.
The obtained length is standard.
- For standard length, length (L2) is not required on the specification sheet. Indicate the length when using a non-standard length. Select the length based on the following DIN rail length setting table L2.

● How to calculate length of DIN rail
 Manifold length (L1) = (A x n) + (B x m) + (C x l) + D x 2
 DIN rail length (L2) = L2' x 12.5

$$L2' : \frac{L1 + 40}{12.5} \rightarrow \text{round up at the decimal point}$$

$$\text{DIN rail mounting pitch (L3)} = L2 - 12.5$$

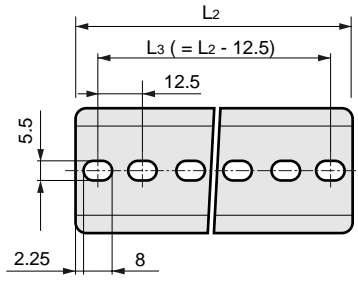
*2 Multiple combinations between serial transmission type
 Multiple serial transmission types can be combined and installed on the same DIN rail.
 (Maximum station number: 12 for T9DAR/T9GAR, while 24 for T9LOR)
 Install EVT or end block next to serial transmission slave unit.
 Indicate the combination on the specification sheet.
 Example) EVT: 20 stations, electric/supply and exhaust unit T9LOR: 8 point x 3



● DIN rail length setting table

	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	31	
L1: Manifold length	97.5	110	122.5	135	147.5	160	172.5	185	197.5	210	222.5	235	247.5	260	272.5	285	297.5	310	322.5	335	347.5	360	372.5	385	397.5	410	422.5	435	447.5	460	472.5	485
L2: Rail length	137.5	150	162.5	175	187.5	200	212.5	225	237.5	250	262.5	275	287.5	300	312.5	325	337.5	350	362.5	375	387.5	400	412.5	425	437.5	450	462.5	475	487.5	500	512.5	525
Pitch L3	125	137.5	150	162.5	175	187.5	200	212.5	225	237.5	250	262.5	275	287.5	300	312.5	325	337.5	350	362.5	375	387.5	400	412.5	425	437.5	450	462.5	475	487.5	500	512.5

	Block width (mm)	
A EVT	14	
B Electric / supply and exhaust block	T11R	42
	T30R	42
	T9*	32
C End block	10	
D Retainer	11.5	



Note 1: When L1 exceeds this table range, calculate according to "How to calculate DIN rail length".

MEVT manifold specifications (Ver.2)

● Manifold model no.

MEVT - - - - - -

Model no. **A** Pressure control range **B** Control input signal **C** Port size **D** Electric / supply and exhaust block **E** Station number **F** DIN rail Installation attitude **G** Voltage

Part name	Model no.	Layout																															Quantity				
		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	31					
EVT	EVT <input type="text"/> - <input type="text"/> - <input type="text"/> - <input type="text"/> - <input type="text"/> - <input type="text"/> - <input type="text"/>																																				
	EVT <input type="text"/> - <input type="text"/> - <input type="text"/> - <input type="text"/> - <input type="text"/> - <input type="text"/> - <input type="text"/>																																				
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	EVT <input type="text"/> - <input type="text"/> - <input type="text"/> - <input type="text"/> - <input type="text"/> - <input type="text"/> - <input type="text"/>																																				
Electric / supply and exhaust block	EVT-T <input type="text"/> R- <input type="text"/>																																				
End block	EVT-EL (for left side)																																				
	EVT-ER (for right side)																																				
DIN rail	L2 = <input type="text"/>	Attached part	Blanking plug				Silencer																														
			GWP4-B		GWP6-B		SLW-H6																														

- Viewed from piping port, allocate positions from left.
- As shown on the wiring cover of EVT, REG-No. is assigned as 1, 2, 3, ... per electric/supply exhaust block from the nearest side.
- Install electric/supply and exhaust block to right side of EVT.
Serial transmission type allows left installation. Consult with CKD.

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Desiccant type dryer
High polymer membrane dryer
Air filter
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F.R.L. (Separate)
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Precise regulator
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Vacuum regulator
Suction plate
Magnetic spring buffer
Mechanical pressure SW
Electronic pressure SW
Contact / close contact cont. SW
Air sensor
Pressure SW for coolant
Small flow sensor
Small flow controller
Flow sensor for air
Flow sensor for water
Total air system
Total air system (Gamma)

Ending

Thin electro pneumatic regulator F.R.L. unit