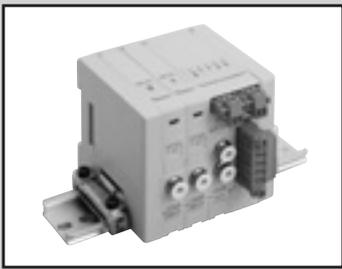


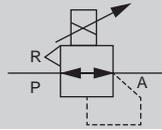
SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder switch
MN3E
MN4E
4GA/B
M4GA/B
MN4GA/B
FR (module unit)
Clean F.R
Precision R
Press gauge
Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending



Thin electro pneumatic regulator
Reduced wiring manifold

MEVT Series

JIS symbol



Specifications (*1)

Descriptions		EVT100	EVT500
Working fluid		Clean compressed air (JIS B 8392-1 2012: Grade 1.3.2 or equivalent)	
Max. working pressure		200 kPa	0.7 MPa
Min. working pressure		Control pressure + max. control pressure × 0.1	
Proof pressure	Inlet side	300 kPa	1.05 MPa
	Outlet side	150 kPa	0.75 MPa
Pressure control range		0 to 100 kPa	0 to 0.5 MPa
Power supply voltage		24 VDC ± 10% (stabilized power supply with ripple rate 1% or less)	
Current consumption		0.1 A or less	
Input signal (input impedance)		0 to 10 VDC (6.6 kΩ)	
		0 to 5 VDC (3.3 kΩ)	
		4 to 20 mA (250Ω)	
Analog output	*2	1 to 5 VDC (load impedance 1 kΩ and over)	
Insulation resistance		100 MΩ (500 VDC) and over	
Withstand voltage		1500 VAC 1 min.	
Hysteresis	*3	0.4% F.S. or less	
Linearity	*3	±0.5% F.S. or less	
Resolution	*3	0.1% F.S. or less	
Repeatability	*3	0.3% F.S. or less	
Temperature characteristics	Zero drift	0.15% F.S./°C or less	
	Span drift	0.07% F.S./°C or less	
Max. flow rate (ANR) *4		2 l/min	6 l/min
Step response	*5 No load	0.1 s or less	
	15 cm ³ load	0.5 s or less	
Ambient temperature		5 to 50°C	
Fluid temperature		5 to 50°C	
Operation display	*6	2-color display	
Lubrication		Not available	
Mounting orientation		Free	
Atmosphere		Containing corrosive gas is not permissible	
Main dimensions		W14 × D75 × H75	
Port size		ø4, ø6 push-in fitting (selectable)	
Weight (main body)		80 g	

*1: Above characteristics are the values where power voltage is 24 ± 0.1 VDC, and measured at room temperature.

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

DeviceNet-compatible (T9DAR) and CC-Link-compatible (T9GAR) have pressure monitor data. (Refer to the serial transmission slave station specifications on page 881.)

*3: The condition of the values above is: 25 ± 3°C ambient temperature, no load, working pressure of the max. control pressure × 1.1 (EVT100: 110 kPa, EVT500: 0.55 MPa), and 10 to 100% control pressure. Limited to a closed circuit in the secondary side, the pressure may fluctuate if used for blowing, etc.

*4: The value above is obtained at the max. working pressure and max. control pressure.

*5: The value above is obtained at the max. working pressure and when the step amount changes from

50% F.S. → 100% F.S.
50% F.S. → 60% F.S.
50% F.S. → 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
Manifold	Block manifold	
Mounting method	DIN rail mount	
Supply and exhaust method	Common supply/common exhaust	
Max. station number	8 stations	12 stations *1
Port size	Output port (A)	ø4, ø6 push-in fitting (selectable)
	Input (P)/exhaust (R) ports	ø4, ø6 push-in fitting (selectable)

*1: The max. station No. per slave unit is 4 (T9DAR/T9GAR).

How to order

Manifold model No.

MEVT 500-0 C4-T11R-8-U-3-P70

Discrete EVT model No.

EVT 500-0 C4-E2-3-P70

Model No.

A Pressure control range

I Clean room specifications

B Input control signal

C Port size
*1
*2

D Electric/supply and exhaust block

E Lead wire

F Station No.

G DIN rail mounting direction

H Voltage

* Be sure to fill in the "manifold specifications" (page 886).

Code	Content				
A Pressure control range					
100	0 to 100 kPa				
500	0 to 0.5 MPa				
B Input control signal					
		Electric/supply and exhaust block			
		T11R	T30R	T9DAR	T9GAR
0	0 to 10 VDC	●	●		
1	0 to 5 VDC	●	●	●	●
2	4 to 20 mA	●	●		
C Port size (output port (A))					
C4	ø4 push-in fitting				
C6	ø6 push-in fitting				
D Electric/supply and exhaust block					
T11R	Common terminal block				
T30R	D sub-connector				
T9DAR	Serial transmission (DeviceNet 4 input points/4 output points)				
T9GAR	Serial transmission (CC-Link Ver1.10 4 input points/4 output points)				
E Lead wire					
		Electric/supply and exhaust block			
		T11R	T30R	T9DAR	T9GAR
E2	4P connector	●	●	●	●
F Station No.					
1	1 station				
to	(May vary depending on reduced wiring specifications.)				
12	12 stations (Refer to the manifold specifications on page 886.)				
G DIN rail mounting direction					
U	Bottom				
B	Back				
H Voltage					
3	24 VDC				
I Clean room specifications					
		Structure			
P70	Exhaust treatment				

⚠ Note on selection guide

*1: Specify the input (P)/exhaust (R) port sizes in the electric, supply and exhaust block section of manifold specifications.

*2: A filter is built in the input (P)/output (A) ports.

SCPD3

SCM

SSD2

MDC2

SMG

LCM

LCR

LCG

LCX

STM

STG

STR2

MRL2

GRC

Cylinder Switch

MN3E
MN4E

4GA/B

M4GA/B

MN4GA/B

F.R.(module unit)

Clean F.R

Precision R

Press gauge
Diff. press gauge

Electro-pneumatic R

Speed controller

Auxiliary valve

Fitting/tube

Clean air unit

Pressure sensor

Flow rate sensor

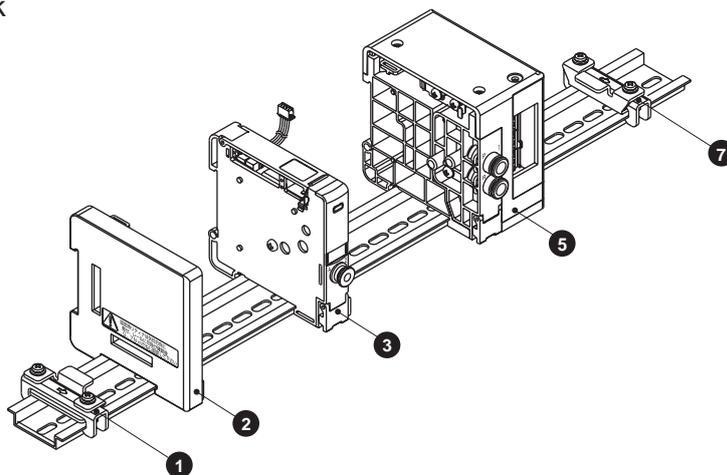
Valve for air blow

Ending

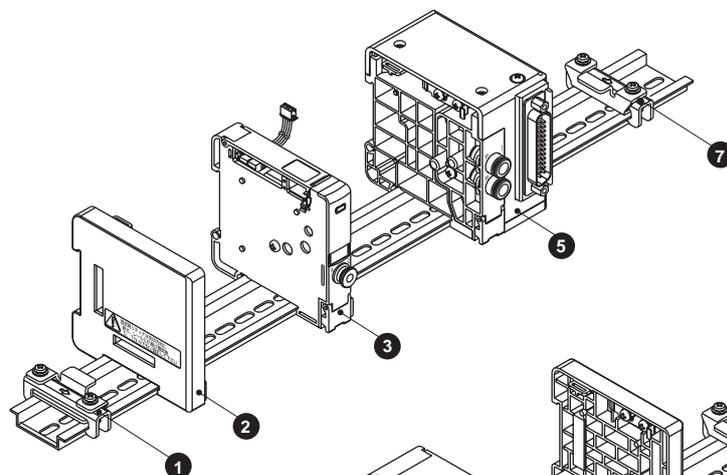
SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder switch
MN3E
MN4E
4GA/B
M4GA/B
MN4GA/B
F.R (module unit)
Clean F.R
Precision R
Press gauge
Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

MEVT components and parts list

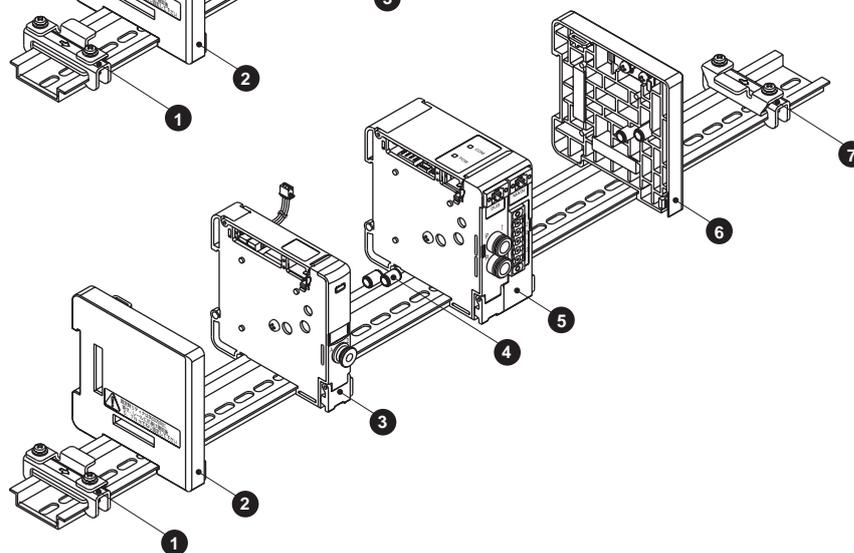
Common terminal block



D sub-connector



Serial transmission



Main parts list

No.	Block component name	Model No.	No.	Block component name	Model No.
1	Retainer L	EVT-HL-P70	5	Electric/supply and exhaust block	EVT-T*-P70
2	End block L	EVT-EL-P70	6	End block R	EVT-ER-P70
3	EVT	EVT*OO-P70	7	Retainer R	EVT-HR-P70
4	Piping fitting	EVT-P-P70			

Weight

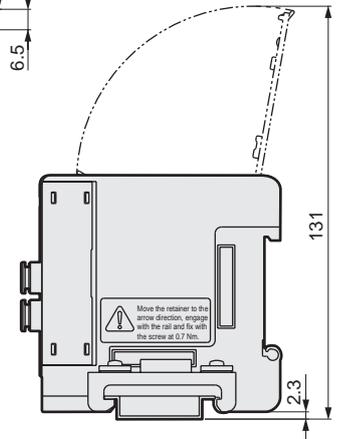
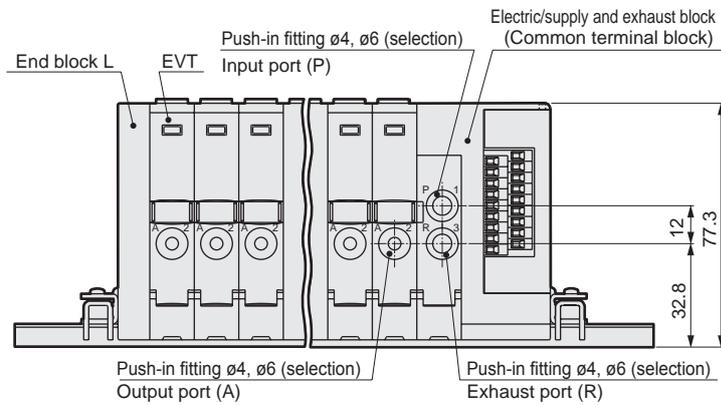
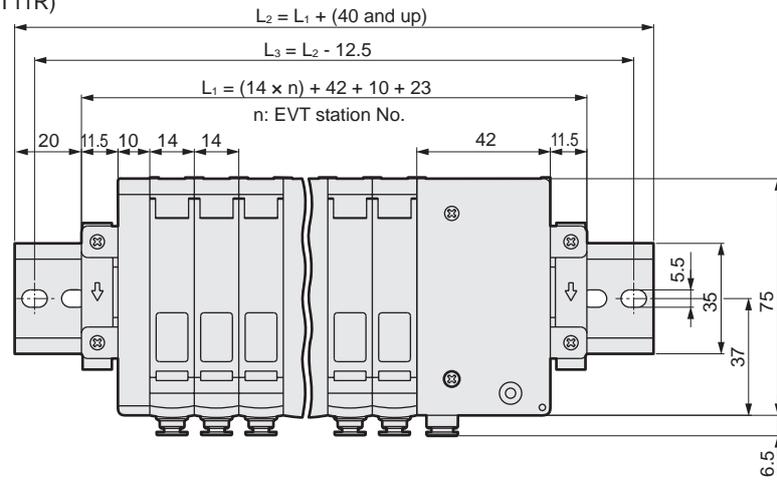
Block	Model No.	Weight	Block	Model No.	Weight
EVT	EVT*OO-P70	80	Electric/supply and exhaust block	T11R-P70	115
End block	EVT-EL-P70	30	Electric/supply and exhaust block	T30R-P70	125
	EVT-ER-P70	30		T9*R-P70	145
			Retainer	EVT-H*-P70	25
			Piping fitting	EVT-P-P70	-

Dimensions



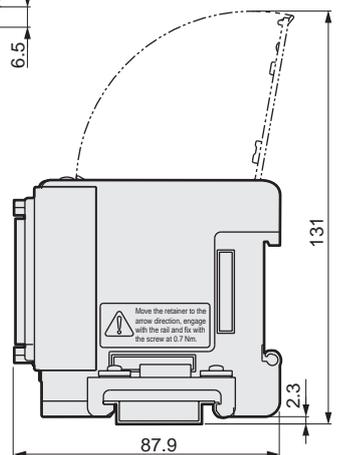
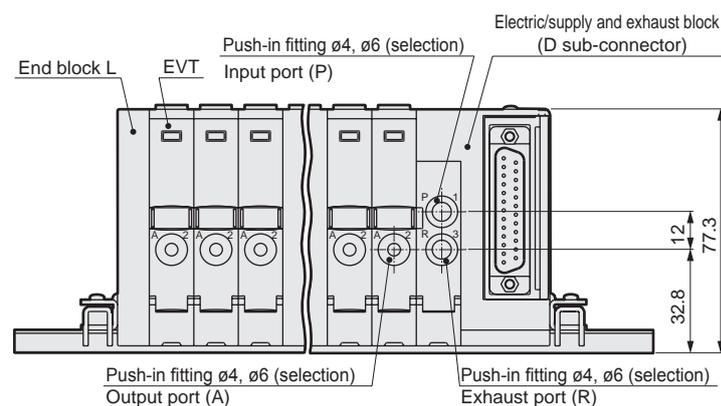
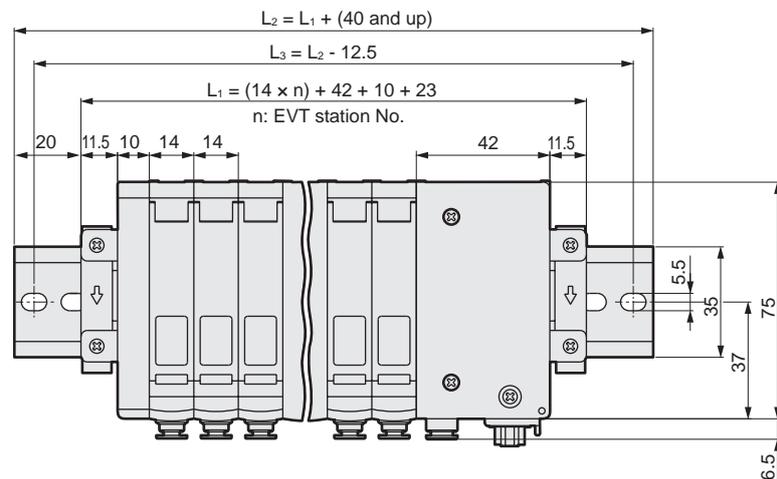
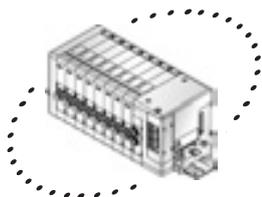
MEVT-P70

- Common terminal block (T11R)



MEVT-P70

- D sub-connector (T30R)



SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder Switch
MN3E MN4E
4GA/B
M4GA/B
MN4GA/B
F.R.(module unit)
Clean F.R
Precision R
Press gauge Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

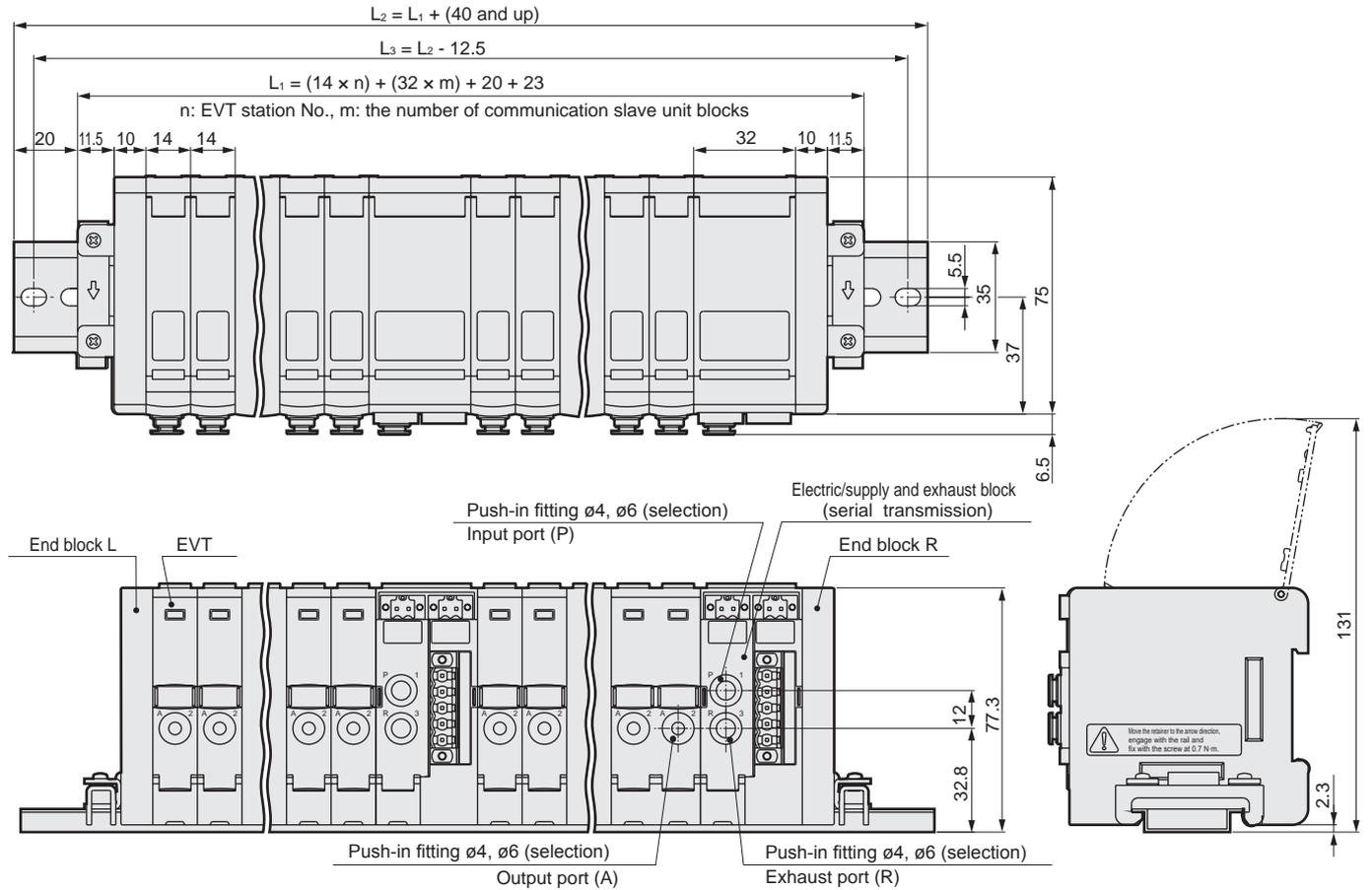
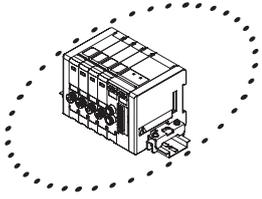
MEVT-T1/3/9 Series

Dimensions



MEVT-P70

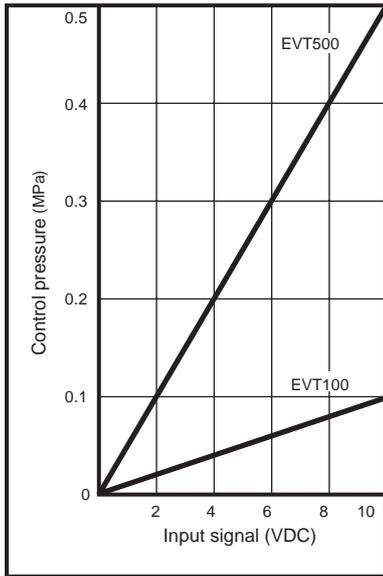
- Serial transmission (T9*)



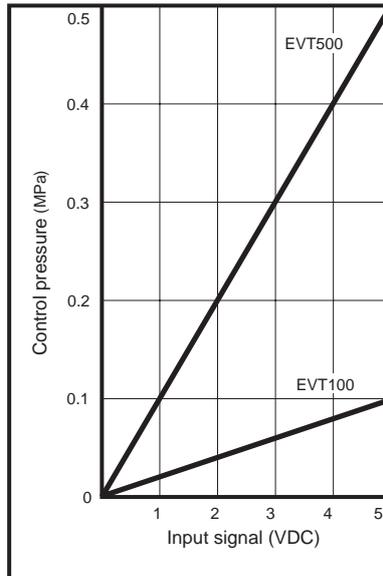
*1: The max. station No. per slave unit is 4 (T9DAR/T9GAR).

I/O characteristics

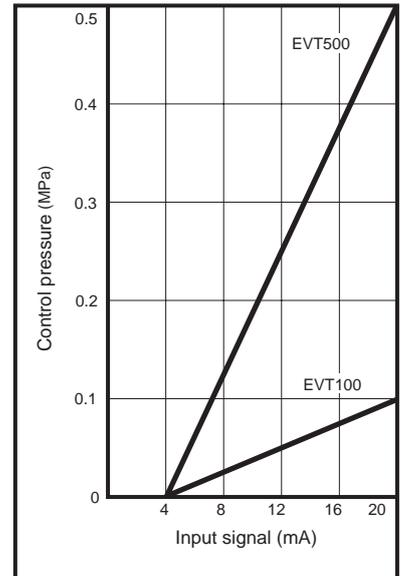
● Input signal 0-10 VDC



● Input signal 0-5 VDC

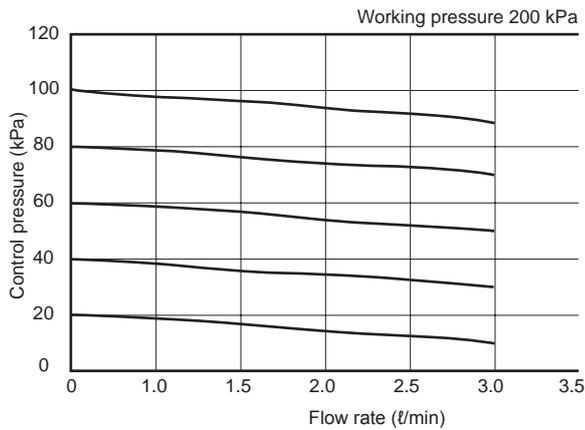


● Input signal 4-20 mA

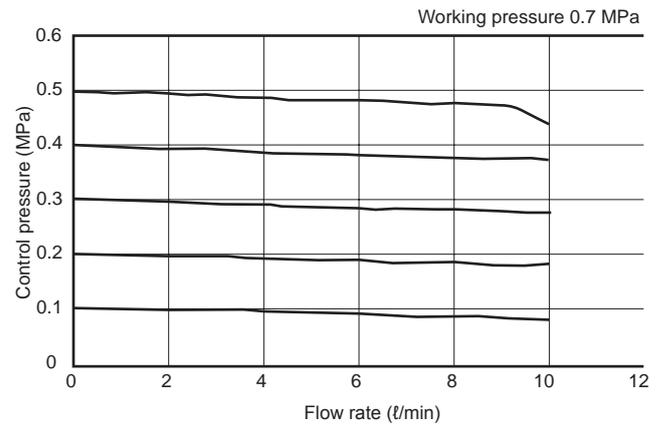


Flow characteristics

● EVT100



● EVT500



SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder Switch
MN3E MN4E
4GA/B
M4GA/B
MN4GA/B
F.R.(module unit)
Clean F.R
Precision R
Press gauge Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

MEVT: Block configurations

● EVT discrete

(1) Required station No. of EVT can be placed on DIN rail.

However, the max. station No. is limited depending on the method. (Refer to page 868.)

(2) Viewed from the fitting, nominal station No. of EVT is assigned as 1, 2, 3, ... from right.

(3) As shown on the wiring cover of EVT, REG-No. is assigned as 1, 2, 3, per electric/supply and exhaust block from the nearest side.

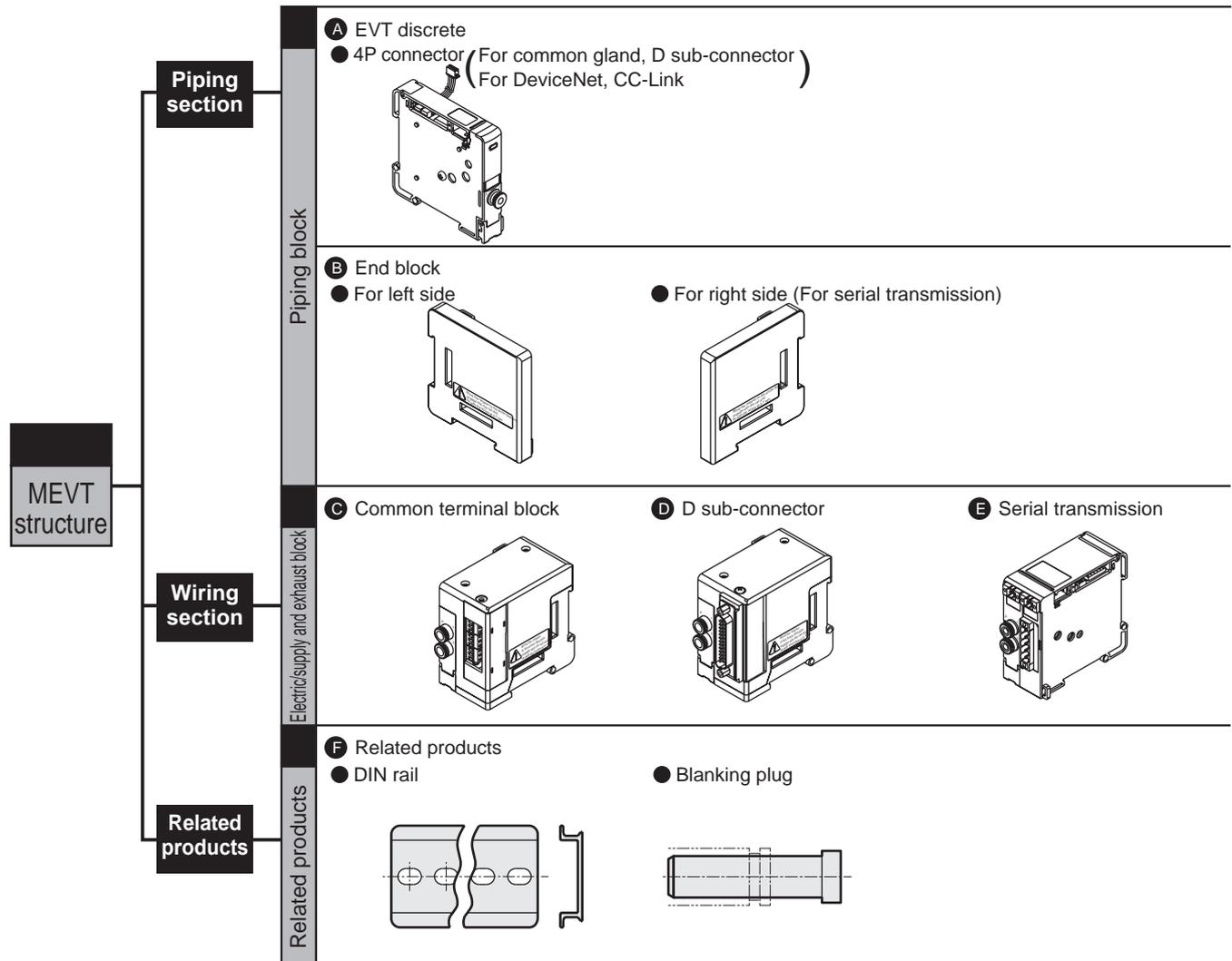
● Electric/supply and exhaust block

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

● End block

(1) For the serial transmission install the blocks to both sides.

(2) If common terminal block or D sub-connector install this block on the opposite face of electric/supply and exhaust block.



SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder Switch
MN3E MN4E
4GA/B
M4GA/B
MN4GA/B
F.R.(module unit)
Clean F.R
Precision R
Press gauge Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

Piping section

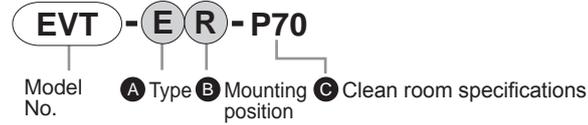
A. EVT discrete

Refer to pages 868, 869 for selection guide.

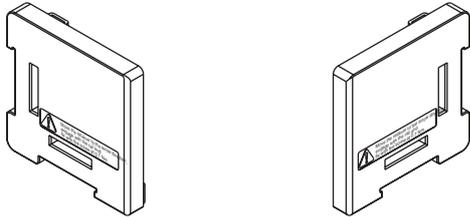
B. End block

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

When using the common terminal block (T11R) or D sub-connector (T30R), mount it only on the opposite side to the electric and supply/exhaust block (EVT-EL).

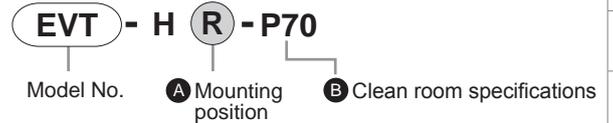


A Type		B Mounting position		C Clean room specifications	
E	Common exhaust	L	For left side		Structure
		R	For right side (For serial transmission)	P70	Exhaust treatment



[Retainer]

Fix at both ends of manifold.

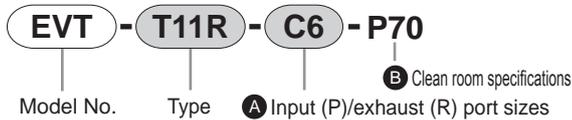


A Mounting position		B Clean room specifications	
L	For left side		Structure
R	For right side	P70	Exhaust treatment

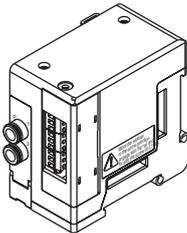


Electric/supply and exhaust block

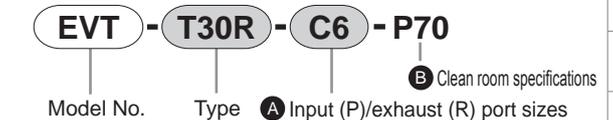
C. Common terminal block



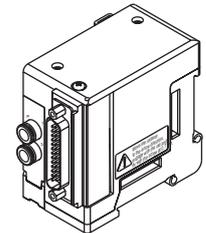
A Input (P)/exhaust (R) port sizes		B Clean room specifications	
C4	ø4 push-in fitting		Structure
C6	ø6 push-in fitting	P70	Exhaust treatment



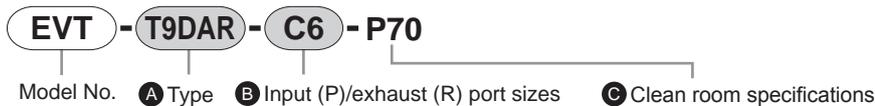
D. D sub-connector



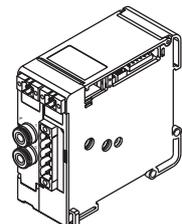
A Input (P)/exhaust (R) port sizes		B Clean room specifications	
C4	ø4 push-in fitting		Structure
C6	ø6 push-in fitting	P70	Exhaust treatment



E. Serial transmission



A Type		B Input (P)/exhaust (R) port sizes		C Clean room specifications	
T9DAR	DeviceNet 4 input points/4 output points	C4	ø4 push-in fitting		Structure
T9GAR	CC-Link Ver1.10 4 input points/4 output points	C6	ø6 push-in fitting	P70	Exhaust treatment



SCPD3

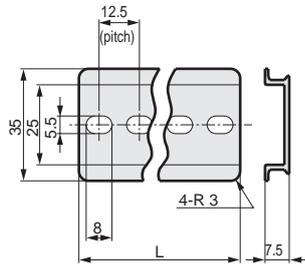
Related products

DIN rail, silencer, blanking plug

SCM

● DIN rail

EVT-BAA [length] -P70



* Select [Length] from the DIN rail length selection table L₂ on page 886.

LCG

LCX

STM

● Blanking plug

STG

STR2

MRL2



GRC

Cylinder switch

Model No.	D	L	l	d	Weight g
GWP4-B-P70	ø4	27	9	6	0.4
GWP6-B-P70	ø6	29	11	8	0.8

MN3E
MN4E

4GA/B

M4GA/B

MN4GA/B

F.R (module unit)

Clean F.R

Precision R

Press gauge
Diff. press gauge

Electro-pneumatic R

Speed controller

Auxiliary valve

Fitting/tube

Clean air unit

Pressure sensor

Flow rate sensor

Valve for air blow

Ending