Plug-in

Connects the electro-pneumatic regulator and the fieldbus device to the same manifold.



IP65

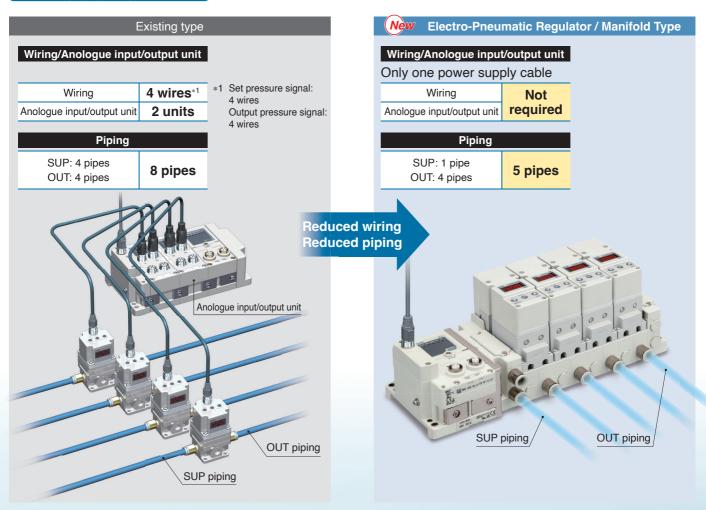
CAT.EUS60-27Aa-UK

This results in reduced wiring,

less man hours for piping and a more compact size



Wiring/piping labour reduction



Compact

Installation area

Occupied volume

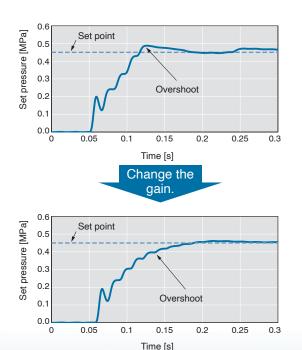
% reduction 10 % reduction



SMC

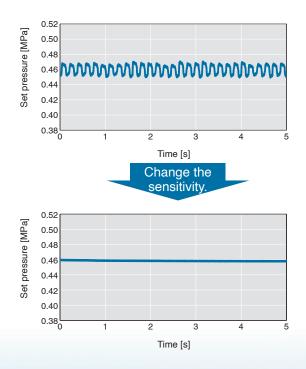
Gain setting

This product can change the response with this gain setting.



Sensitivity setting

When the sensitivity is adjusted, the correction operation of pressure changes.



Download the Operation Manual that describes the setting method from the SMC website.

Remote control and monitoring are available.

■ Via the fieldbus

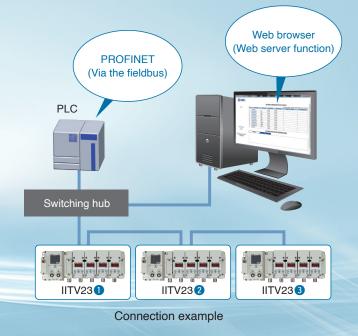
Control, parameter setting and monitoring can be performed from a PLC.

■ Web server function

Status checks of the EX600 and electro-pneumatic regulators are possible with the use of general-purpose web browsers such as Microsoft Edge.

List of Main Items

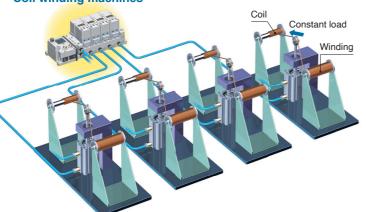
Item		Via the fieldbus (PROFINET, EtherNet, EtherCAT)	Web server function
Control	Set pressure value	•	-
	Gain setting	•	A
Parameter setting	Sensitivity setting	•	A
Setting	Accumulated energising time	•	A
Monitoring	I/O status	•	•
Monitoring	Diagnostic state	•	•



Applications

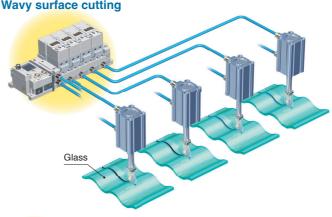
Tension Control

Coil winding machines



Actuator Output Control

Wavy surface cutting



Flow Rate Control

Liquid pressure feeding by tank pressurisation

By fixing the nozzle orifice, pressure control can be used to control the flow rate.



Variations

Series	Model	Set pressure range	Linearity	Hysteresis	Repeatability	Sensitivity
	ITV234	0 to 0.7 MPa	±0.009 MPa or less	0.0045 MPa or less	±0.0045 MPa or less	±0.2 % F.S. or more (Input signal variation:
	ITV235	0 to 0.9 MPa	(±1 % F.S.*1)	(0.5 % F.S.*1)	(±0.5 % F.S.* ¹)	8/4095 (12 bit) or more)

^{*1} The F.S. is fixed at 0.9 MPa regardless of the set pressure range.

CONTENTS

Plug-in Electro-Pneumatic Regulator / Manifold Type IITV23 Series

How to Order	p. 4
Specifications	p. 5
Linearity, Hysteresis, Repeatability, Pressure Characteristics Flow Rate Characteristics, Relief Characteristics, Response Characteristics	
Construction	p. 8
Parts Description	p. 9

LED Indicator	р. 9
Dimensions	p. 10
Electro-Pneumatic Regulator Manifold Exploded View	p. 17
Manifold Exploded View (U side)	p. 19
Accessories	p. 21
Specific Product Precautions	p. 28

Plug-in

Electro-Pneumatic Regulator /

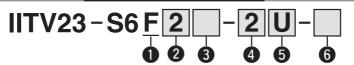
Manifold Type

IITV23 Series

CE CA CANOUS



How to Order Manifolds



SI unit

D	EtherCAT
E	EtherNet/IP TM
F	PROFINET

2 End plate

2	M12 power supply connector, B-coded
3	7/8 inch power supply connector
4	M12 power supply connector IN/OUT, A-coded, Pin arrangement 1
5	M12 power supply connector IN/OUT, A-coded, Pin arrangement 2

6 Mounting and Option

	3 1
Symbol	Mounting
_	Direct mounting
D	DIN rail mounting (With DIN rail)
D0	DIN rail mounting (Without DIN rail)

- Refer to page 29 for details on securing the DIN rail mounting type manifold.
- Refer to L₃ of the dimensions for the DIN rail length. When a dimension greater than L₃ is required, select D0 and order a DIN rail separately. Refer to page 20 for the DIN rail part number.

3 I/O unit stations

_	None
1	1 station
2	2 stations
:	:
8	8 stations

- * SI unit is not included in I/O unit stations.
- * When I/O unit is selected it is shipped separately, and assembled by the customer. Refer to the operation manual for mounting.

4 Electro-pneumatic regulator stations

regulator stations		
Symbol	Stations	
2	2 stations	
3	3 stations	
4	4 stations	

*1 Select from 2 stations. The choice of 1 station is not available.

6 P, E port entry

U	U side
D	D side
В	Both sides
С	U side, Built-in silencer
E	D side, Built-in silencer
F	Both sides, Built-in silencer

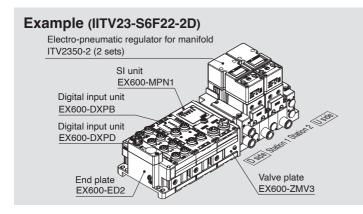
- * The 3/5(E) port is plugged for the built-in silencer type.
- When the built-in silencer type is used, keep the exhaust port from coming into direct contact with water or other liquids.
- * When the number of electro-pneumatic regulator stations is 3 or more, "both sides" is recommended. Excessive back pressure may cause damage.

For details on the Fieldbus system (for input/output) EX600 series, refer to the **Web Catalogue** and the Operation Manual.

For the part numbers of the SI units to be mounted, refer to page 17. (IP40 specifications may be required according to the I/O unit to be selected.)

The part number for a valve plate connected to the IITV23 is [EX600-ZMV3]. Refer to page 22. Please download the Operation Manual via the SMC website: https://www.smc.eu

How to Order Manifold Assembly



- IITV23-S6F22-2D ·······1 set (2-station base part no.)
- * ITV2350-2 ·······2 sets (0.9 MPa spec., Pressure display unit: MPa)
- * EX600-DXPD ·············1 set I/O unit part number (Station 1)
- * EX600-DXPB ············1 set I/O unit part number (Station 2)
 - → * The asterisk denotes the symbol for the assembly.

* Prefix it to the part numbers of the valve, etc.

For the electro-pneumatic regulator arrangement, the electro-pneumatic

regulator closest to the D side is considered the 1st station. Under the manifold part number, state the electro-pneumatic regulators to be mounted in order starting with the 1st station as shown in the figure.

- * Do not enter the SI unit part number and the end plate part number together.
- * If the number of EX600 units is 6 stations or more, install an intermediate reinforcement bracket.

How to Order Electro-Pneumatic Regulators for Manifold (With mounting screw)



Pressure range

4	0.7 MPa
5	0.9 MPa

2 Output type
2 Direct output type

3 Pressure display unit		
_	MPa	
3	har	

SMC

* When ordering an electro-pneumatic regulator for manifold individually, the base gasket is not included.

Since the base gasket is attached to the manifold block, please contact SMC if it is needed for maintenance.





Manifold

Wiring	Serial wiring (Dedicated EX600)		
Supply/Exhaust port type	Common SUP/EXH		
Port size	Ø 10 One-touch fitting		
Electro-pneumatic regulator stations	2 to 4 stations		

Formula for Weight (excluding the I/O units and options)

 $W = 539 \times n_1 + 863 [g]$

n1: Electro-pneumatic regulator stations



Electro-Pneumatic Regulator*1

	Tilcamatic					
Fluid			Air			
Pressur	e display unit	MPa	bar	psi		
Min. sup	pply pressure	Set pressure + 0.05 MPa	Set pressure + 0.5 bar	Set pressure + 7.25 psi		
Max. su	pply pressure	1.0 MPa	10 bar	145 psi		
Set pressu	re range (Rated)*2	0 to 0.7 MPa/0.9 MPa	0 to 7 bar/9 bar	0 to 100 psi/130 psi		
Min. set	pressure	0.005 MPa	0.05 bar 1 psi			
Power	Voltage	24 VDC ±10 % (Stabilise	ed power supply with a r	ipple rate of 1 % or less)		
supply	Current consumption		0.12 A or less			
Linearit	y* ³	±0.009 MPa or less	±0.09 bar or less	±1.3 psi or less		
Hystere	sis* ³	0.0045 MPa or less 0.045 bar or less 0.65 psi or less				
Repeata	bility* ³	± 0.0045 MPa or less ± 0.045 bar or less ± 0.65 psi or less				
Sensitiv	ity	±0.2 % F.S. (Input signal variation: 8/4095 (12 bit) or more)				
Temperatu	re characteristics	±0.00108 MPa/°C or less	±0.0108 bar/°C or less	±0.156 psi/°C or less		
Step res	sponse*4		0.3 s or less			
	Display type	3-digit, 7-se	egment LED, 1-colour display (Red)			
pressure display*5			±0.18 bar ±1 digit or less	±3 psi ±1 digit or less		
Min. unit 0.001 (Actual display: .001)		0.01	1			
Ambien tempera	t and fluid itures	0 to 50 °C (No condensation)				
Enclosu	osure IP65					
Weight		Approx. 390 g (Without accessories)				

- *1 This specification table shows the characteristics at a power supply voltage of 24 VDC, ambient temperature of 25 ±3 °C, and no load applied.
- Only in static conditions, the pressure may fluctuate when air is consumed on the output side.
- $\ast 2$ When the input signal is 0 %, there is residual pressure equal to or less than the minimum set pressure.
 - In cases where the pressure needs to be reduced completely to 0, install a 3-port valve, etc., on the output side to discharge the residual pressure.
- *3 Compliant with ISO 10094
- *4 This is the characteristics to reach 90 % of the set pressure when the step amount are $[0 \rightarrow 100$ %], $[25 \rightarrow 75$ %], and $[45 \rightarrow 55$ %] under the max. supply pressure conditions.
- *5 The zero/span adjustment values are set by the minimum unit of the output pressure display. Note that the unit cannot be changed.



Specifications



SI Unit (For the Electro-Pneumatic Regulator/Manifold Type) PROFINET

	Model	EX600-MPN1	
	Protocol	PROFINET IO (Conformance Class C)	
	Communication speed	100 Mbps	
	Configuration file*1	GSDML file	
Communication		Fast Start up	
	Annliachle function	MRP	
	Applicable function	System Redundancy S2	
		Web server	
Internal current consu	mption (Power supply for control/input)	0.17 A or less	
Output	Electro-pneumatic regulator for manifold	Up to 4 units	
Standards		CE/UKCA marking, UL (CSA)	
Weight		310 g	
	Operating temperature range	Operating: -10 to +50 °C, Stored: -20 to +60 °C	
Environmental	Operating humidity range	35 to 85 % RH (No condensation)	
resistance	Withstand voltage	500 VAC for 1 minute between external terminals and FE	
	Insulation resistance	500 VDC, 10 $\mbox{M}\Omega$ or more between external terminals and FE	

^{*1} The configuration file can be downloaded from the SMC website: https://www.smc.eu

SI Unit (For the Electro-Pneumatic Regulator/Manifold Type) EtherNet/IPTM

Model		EX600-MEN1	
	Protocol	EtherNet/IPTM (Conformance version: Composite19)	
	Communication speed	10/100 Mbps	
Communication	Configuration file*1	EDS file	
Communication		QuickConnect TM	
	Applicable function	DLR	
		Web server	
Internal current consu	mption (Power supply for control/input)	0.17 A or less	
Output Electro-pneumatic regulator for manifold			
Standards		CE/UKCA marking, UL (CSA)	
Weight		310 g	
	Operating temperature range	Operating: -10 to +50 °C, Stored: -20 to +60 °C	
Environmental	Operating humidity range	35 to 85 % RH (No condensation)	
resistance	Withstand voltage	500 VAC for 1 minute between external terminals and FE	
	Insulation resistance	500 VDC, 10 $\mbox{M}\Omega$ or more between external terminals and FE	

 $[\]ast 1$ The configuration file can be downloaded from the SMC website: https://www.smc.eu

SI Unit (For the Electro-Pneumatic Regulator/Manifold Type) EtherCAT

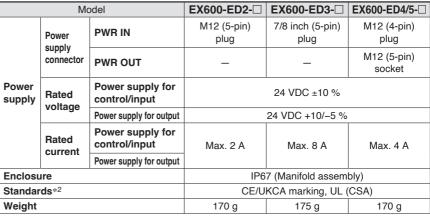
or ormit (i or the bloom of meaning regulator/maintein rypo) but or the			
	Model	EX600-MEC1	
	Protocol	EtherCAT (Conformance Test Record V2.4.0)	
Communication	Communication speed	100 Mbps	
Communication	Configuration file*1	XML file	
	Applicable function	Web server	
Internal current consu	mption (Power supply for control/input)	0.17 A or less	
Output Electro-pneumatic regulator for manifold		Up to 4 units	
Standards		CE/UKCA marking, UL (CSA)	
Weight		310 g	
	Operating temperature range	Operating: -10 to +50 °C, Stored: -20 to +60 °C	
Environmental	Operating humidity range	35 to 85 % RH (No condensation)	
resistance	Withstand voltage	500 VAC for 1 minute between external terminals and FE	
	Insulation resistance	500 VDC, 10 $\mbox{M}\Omega$ or more between external terminals and FE	

^{*1} The configuration file can be downloaded from the SMC website: hhttps://www.smc.eu

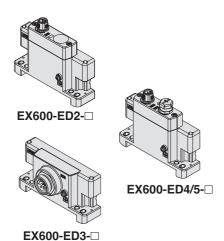


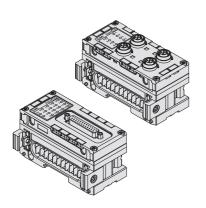
Specifications

End Plate



^{*2} The EX600-ED4/5- \square is not compliant with UL (CSA) standards.



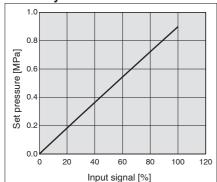


I/O Unit

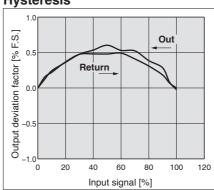
Refer to the Web Catalogue of the Fieldbus system (for input/output) EX600 series.

IITV23 Series Compliant with ISO 10094

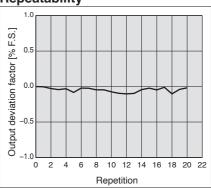
Linearity



Hysteresis

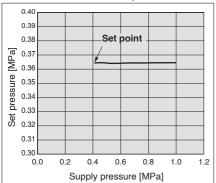


Repeatability



Pressure

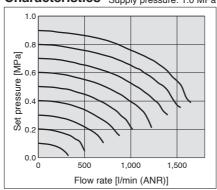
Characteristics



Set pressure: 0.36 MPa

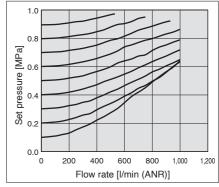
Flow Rate

Characteristics Supply pressure: 1.0 MPa



Relief

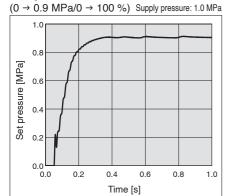
Characteristics Back pressure: 1.0 MPa



When the number of electro-pneumatic regulator stations is 3 or more, a P, E port entry provided on "Both sides" Is recommended.

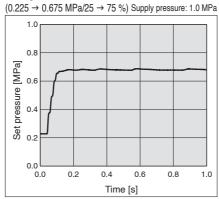
Excessive back pressure may damage the product.

Response Characteristics



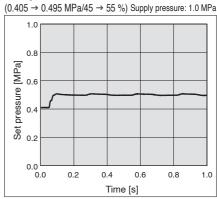
Power supply voltage: 24 VDC, Ambient temperature: 25 ± 3 °C, With no load on the outlet side

Response Characteristics



Power supply voltage: 24 VDC, Ambient temperature: 25 ± 3 °C, With no load on the outlet side

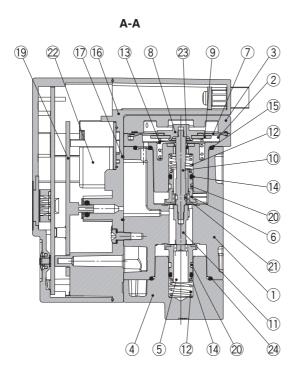
Response Characteristics

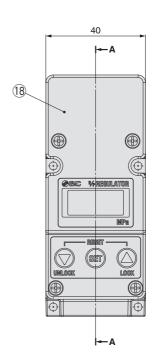


Power supply voltage: 24 VDC, Ambient temperature: 25 ± 3 °C, With no load on the outlet side

Construction

ITV23□0





Main Component Parts

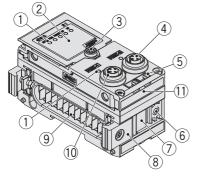
No.	Description	Material
1	Body	Aluminium alloy
2	Intermediate body	Aluminium alloy
3	Cover	Aluminium alloy
4	Base plate	Aluminium alloy
5	Supply valve	Stainless steel
6	Exhaust valve	Stainless steel
7	Diaphragm	Rubber
8	Diaphragm disk	Aluminium alloy
9	Diaphragm shell	Stainless steel
10	Stem	Stainless steel
11	Rod	Stainless steel
12	Valve spring	Stainless steel
13	Bias spring	Stainless steel
14	Seal	HNBR
15	Exhaust seal	HNBR
16	Sub-plate	Resin
17	Sub-plate seal	HNBR
18	Bowl cover	Resin
19	Control circuit assembly	_
20	Wear ring	Resin
21	Stem guide	Resin
22	Solenoid valve	_
23	Slide bearing	_
24	O-ring	HNBR

^{* ♦} indicates parts in contact with the fluid. In the control circuit assembly, only the built-in pressure sensor is the part in contact with the fluid.



Parts Description

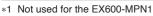
SI Unit

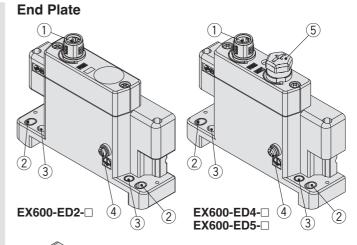


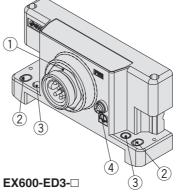


EX600-MPN1 EX600-MEN1 EX600-MEC1

No.	Name	Use
1	Status indication LED	Displays unit status
2	Indication cover*1	Open for setting the switch.
3	Indication cover set screw*1	Loosen for opening the indication cover.
4	Connector (PORT-2)	Connects to the communication cable
5	Marker groove	Can be used to mount a marker
6	Valve plate mounting hole	Fixes a valve plate in place
7	Valve plate mounting groove	Inserts a valve plate
8	Joint bracket	Links units to one another
9	Connector for unit (Plug)	Transmits signals to the neighbouring unit and supplies power
10	Connector (PORT-1)	Connects to the communication cable
11	MAC address name plate	Displays a unique 12-digit MAC address for each SI unit
12	Seal cap	Mounted on the connector (PORT-2) at the time of shipment







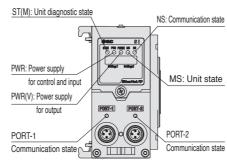
No.	Name	Use
1	Power supply connector (PWR IN)	Supplies power to the unit and/or input/ output device (Only the EX600-ED2/ED4/ ED5-□ is SPEEDCON compatible.)
2	Fixing hole for direct mounting	Connects directly to equipment
3	Fixing hole for DIN rail	Converts to manifold or for DIN rail mounting
4	FE terminal (M3)	Used for grounding. Ground this terminal securely to improve noise immunity.
5	Power supply connector (PWR OUT)	Supplies power to the device on the downstream side

LED Indicator

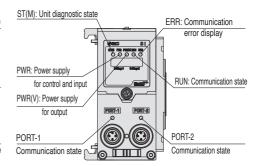
EX600-MPN1

PWR: Power supply for control and input PORT-1 Communication state BF: Communication error display SF: System state PORT-2 Communication state

EX600-MEN1



EX600-MEC1

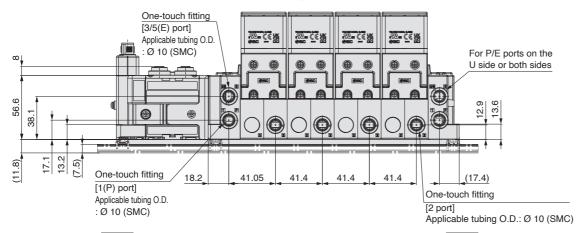


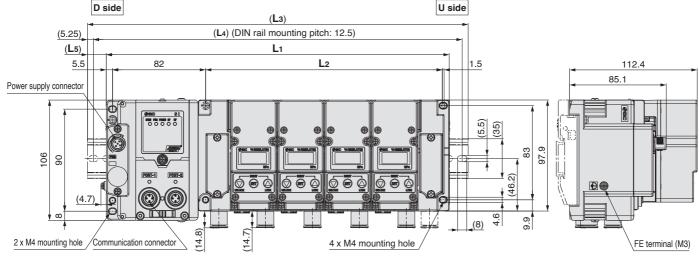
Dimensions

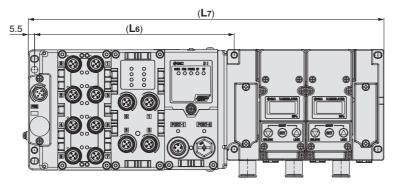
IITV23-S6□2

Protocol: PROFINET, EtherNet/IP™, EtherCAT

End plate specifications: M12 power supply connector, B-coded (EX600-ED2)







IITV23-S6□2□ With I/O unit

* When I/O unit is selected, it is shipped separately, and assembled by the customer. Refer to the operation manual for mounting. Select a part number with a DIN rail length of L7 + 2 x L5 or longer.

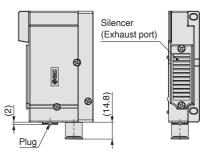
Dimensions					[mm]
Part no.	L ₁	L2	L ₃	L4	L ₅
IITV23-S6□2-2□-□	219.4	125.85	260.5	250	
IITV23-S6□2-3□-□	260.8	167.25	298	287.5	(L3-L1)/2
IITV23-S6□2-4□-□	302.2	208.65	335.5	325	

DIN Rail Part Nos.

	-
Part no.	DIN rail part no.
IITV23-S6□2-2□-D	VZ1000-11-1-13
IITV23-S6□2-3□-D	VZ1000-11-1-16
IITV23-S6□2-4□-D	VZ1000-11-1-19

Refer to L3 of the dimensions for the DIN rail length.
 If a dimension greater than L3 is required, select D0 (without DIN rail) and order a DIN rail separately. Refer to page 20 for the DIN rail part number.

P, E port entry: Built-in silencer





 $(L_6) = 47 \times n + 82$

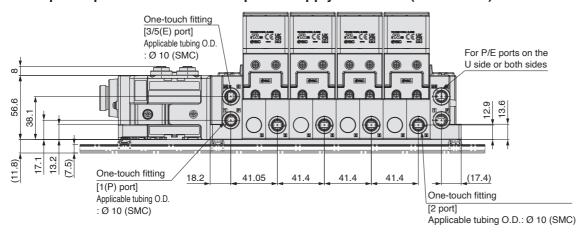
 $(L_7) = 47 \times n + L_1$ n: I/O unit stations

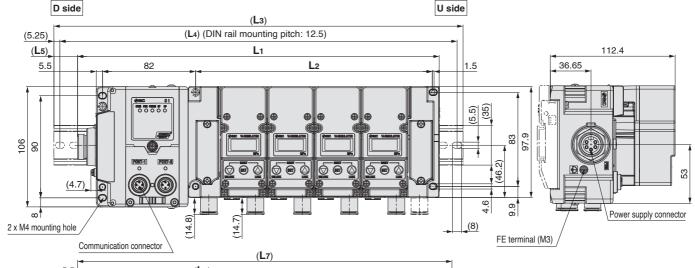
Dimensions

IITV23-S□F3

Protocol: PROFINET, EtherNet/IP™, EtherCAT

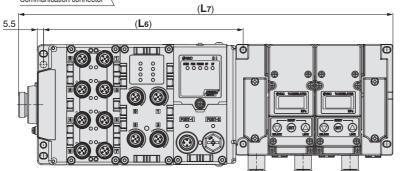
End plate specifications: 7/8 inch power supply connector (EX600-ED3)





 $(L_6) = 47 \times n + 82$

 $(L_7) = 47 \times n + L_1$ n: I/O unit stations



IITV23-S6□3□ With I/O unit

* When I/O unit is selected, it is shipped separately, and assembled by the customer. Refer to the operation manual for mounting. Select a part number with a DIN rail length of L7 + 2 x L5 or longer.

Dimensions

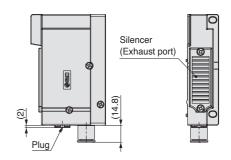
Dimensions					[mm]
Part no.	L ₁	L2	L ₃	L4	L 5
IITV23-S6□3-2□-□	235.9	125.85	273	262.5	
IITV23-S6□3-3□-□	277.3	167.25	310.5	300	(L3-L1)/2
IITV23-S6□3-4□-□	318.7	208.65	360.5	350	

DIN Rail Part Nos.

	-
Part no.	DIN rail part no.
IITV23-S6□3-2□-D	VZ1000-11-1-14
IITV23-S6□3-3□-D	VZ1000-11-1-17
IITV23-S6□3-4□-D	VZ1000-11-1-21

Refer to L3 of the dimensions for the DIN rail length.
 If a dimension greater than L3 is required, select D0 (without DIN rail) and order a DIN rail separately. Refer to page 20 for the DIN rail part number.

P, E port entry: Built-in silencer

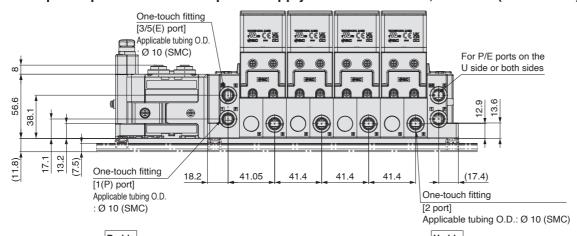


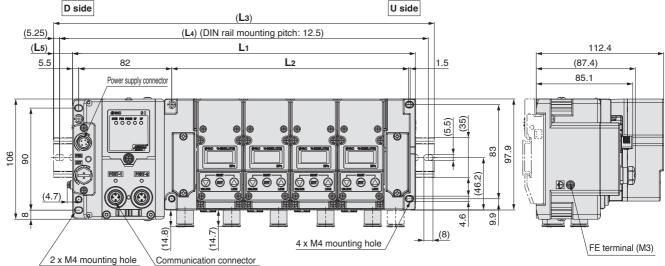
Dimensions

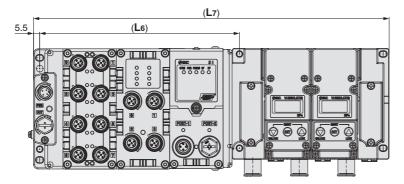
IITV23-S6□4

Protocol: PROFINET, EtherNet/IP™, EtherCAT

End plate specifications: M12 power supply connector IN/OUT, A-coded (EX600-ED4)







IITV23-S6□4□ With I/O unit

* When I/O unit is selected, it is shipped separately, and assembled by the customer. Refer to the operation manual for mounting. Select a part number with a DIN rail length of L7 + 2 x L5 or longer.

Dimensions

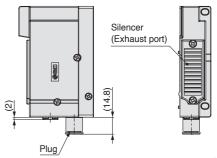
Dimensions					[mm]
Part no.	L ₁	L2	L ₃	L4	L 5
IITV23-S6□4-2□-□	219.4	125.85	260.5	250	
IITV23-S6□4-3□-□	260.8	167.25	298	287.5	(L3-L1)/2
IITV23-S6□4-4□-□	302.2	208.65	335.5	325	

DIN Rail Part Nos.

Part no.	DIN rail part no.
IITV23-S6□4-2□-D	VZ1000-11-1-13
IITV23-S6□4-3□-D	VZ1000-11-1-16
IITV23-S6□4-4□-D	VZ1000-11-1-19

* Refer to L₃ of the dimensions for the DIN rail length. If a dimension greater than L₃ is required, select D0 (without DIN rail) and order a DIN rail separately. Refer to page 20 for the DIN rail part number.

P, E port entry: Built-in silencer





 $(L_6) = 47 \times n + 82$

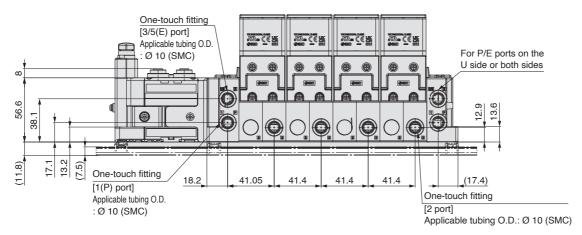
 $(L_7) = 47 \times n + L_1$ n: I/O unit stations

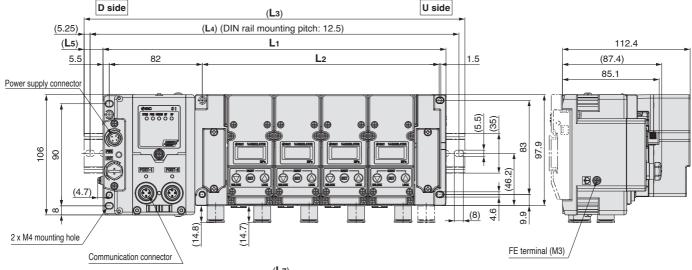
Dimensions

IITV23-S6□5

Protocol: PROFINET, EtherNet/IP™, EtherCAT

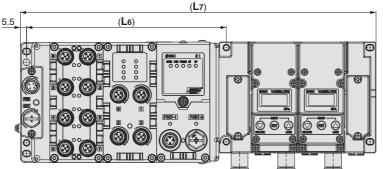
End plate specifications: M12 power supply connector IN/OUT, A-coded (EX600-ED5)





 $(L_6) = 47 \times n + 82$

 $(L_7) = 47 \times n + L_1$ n: I/O unit stations



IITV23-S6□5□ With I/O unit

* When I/O unit is selected, it is shipped separately, and assembled by the customer. Refer to the operation manual for mounting.
Select a part number with a DIN rail length of L7 + 2 x L5 or longer.

Dimensions [mm]					
Part no.	L ₁	L2	L ₃	L4	L ₅
IITV23-S6□5-2□-□	219.4	125.85	260.5	250	
IITV23-S6□5-3□-□	260.8	167.25	298	287.5	(L3-L1)/2
IITV23-S6□5-4□-□	302.2	208.65	335.5	325	

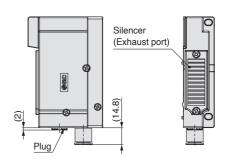
DIN Rail Part Nos.

Part no.	DIN rail part no.
IITV23-S6□5-2□-D	VZ1000-11-1-13
IITV23-S6□5-3□-D	VZ1000-11-1-16
IITV23-S6□5-4□-D	VZ1000-11-1-19

* Refer to L3 of the dimensions for the DIN rail length.

If a dimension greater than L3 is required, select D0 (without DIN rail) and order a DIN rail separately. Refer to page 20 for the DIN rail part number.

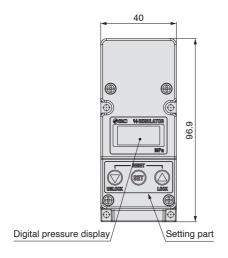
P, E port entry: Built-in silencer

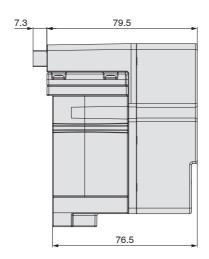


Dimensions

Electro-pneumatic regulator (Single unit)

ITV23□0



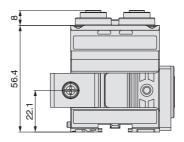


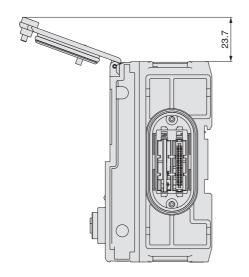
SI unit

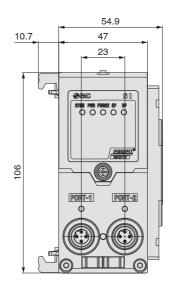
EX600-MPN1

EX600-MEN1

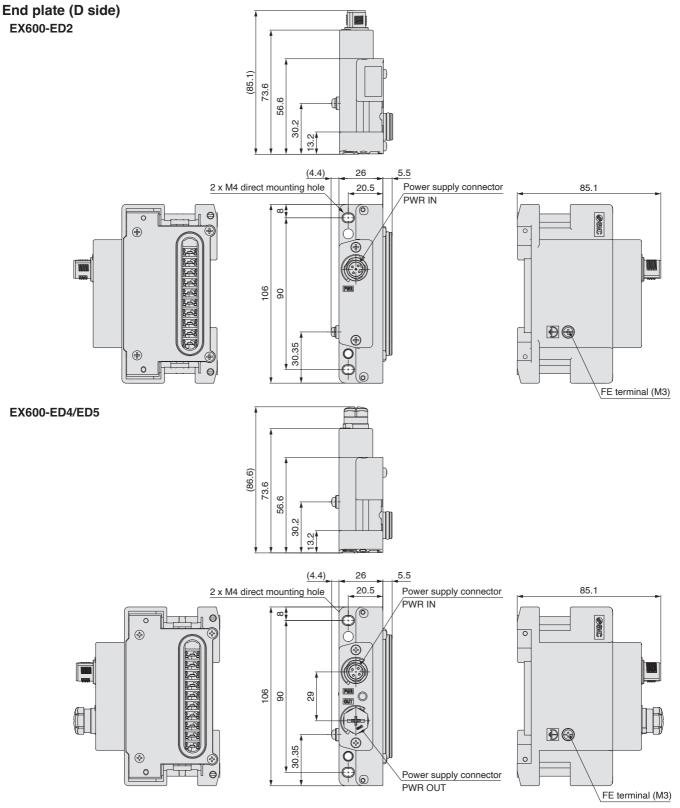
EX600-MEC1







Dimensions



Power supply connector PWR IN: M12 5-pin plug, B-coded

· [
Configuration	EX600-ED2			
Configuration	Pin no.	Description		
2 1	1	24 V (for output)		
	2	0 V (for output)		
5(00)	3	24 V (for control/input)		
3 4	4	0 V (for control/input)		
	5	FE		

Power supply connector PWR IN: M12 4-pin plug, A-coded

: p p.u.g, / : 00					
Configuration	EX600-ED4 (Pin arrangement 1)		EX600-ED5 (Pin arrangement 2)		
Configuration	Pin no.	Description	Pin no.	Description	
3 _ 2	1	24 V (for control/input)	1	24 V (for output)	
600	2	24 V (for output)	2	0 V (for output)	
3 0 V (for control/input) 4 0 V (for output)		0 V (for control/input)	3	24 V (for control/input)	
		4	0 V (for control/input)		

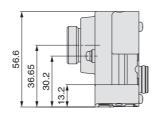
Power supply connector PWR OUT: M12 5-pin socket, A-coded

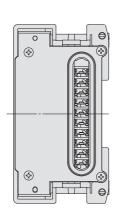
Configuration	EX600-ED4 (Pin arrangement 1)		EX600-ED5 (Pin arrangement 2)		
Corniguration	Pin no.	no. Description		Description	
1 2 1 24		24 V (for control/input)	1 24 V (for output)		
60	2	24 V (for output)	2	0 V (for output)	
(%)	3	0 V (for control/input)	3	24 V (for control/input)	
4 5 3	4	0 V (for output)	4	0 V (for control/input)	
5	5	Unused	5	Unused	

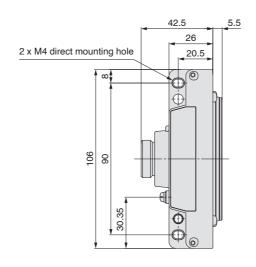


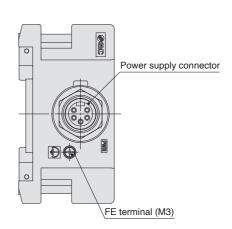
Dimensions

End plate (D side) EX600-ED3





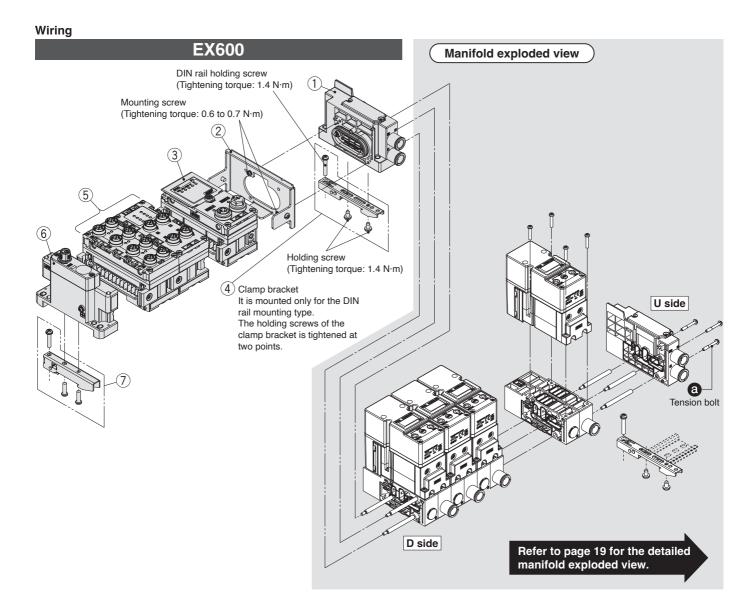




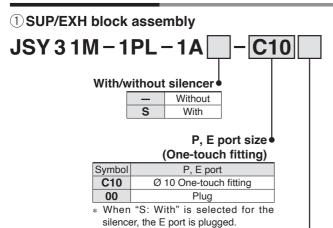
Power supply connector PWR: 7/8 inch 5-pin plug

Configuration	Pin no.	Description
1 5 2 0 4	1	0 V (for output)
	2	0 V (for control/input)
	3	FE
	4	24 V (for control/input)
	5	24 V (for output)

Electro-Pneumatic Regulator Manifold Exploded View



Manifold Parts Nos.



Symbol Mounting

— Direct mounting

DIN rail mounting (Without DIN rail)

2 Valve plate

EX600 - ZMV3

* With mounting screws (2 pcs. of M4 x 6 and 2 pcs. of M3 x 8)

③ EX600 SI unit

EX600 - MPN 1

Protocol

Symbol	Description
PN	PROFINET
EN	EtherNet/IPTM
EC	EtherCAT

4 Clamp bracket

SY30M-15-1A

* The part number is for 1 piece.



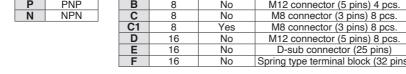
Manifold Parts Nos.

5 EX600 digital input unit

EX600-DX|P||

Input type Symbol Description Number of inputs, open-circuit detection, and connector

Symbol	Number of inputs	Open-circuit detection	Connector
В	8	No	M12 connector (5 pins) 4 pcs.
С	8	No	M8 connector (3 pins) 8 pcs.
C1	8	Yes	M8 connector (3 pins) 8 pcs.
D	16 No		M12 connector (5 pins) 8 pcs.
E	16	No	D-sub connector (25 pins)
F	F 16 No		Spring type terminal block (32 pins)



5 EX600 digital output unit

EX600-DY PB

Number of outputs and connector

	P 7 P		The state of the s			
Symbol	Description	Symb	OI Number of outputs	Connector		
Р	PNP	В	8	M12 connector (5 pins) 4 pcs.		
N	NPN	E	16	D-sub connector (25 pins)		
		F	16	Spring type terminal block (32 pins)		

5 EX600 digital input/output unit

EX600-DM P

Input/Output type

Number of inputs/outputs and connector

Symbol	Description	Symbol	Number of inputs	Number of outputs	Connector
Р	PNP	E	8	8	D-sub connector (25 pins)
N	NPN	F	8	8	Spring type terminal block (32 pins)

5 EX600 anologue input/output unit

EX600-AX

Description

Anologue input/output AX Anologue input

AY Anologue output

Symbol

Number of channels and connector

	Symbol	Number of channels	Connector
[Α	2 channels	M12 connector (5 pins) 2 pcs.

5 EX600 anologue input/output unit

EX600-AMB

• Number of input/output channels and connector

EX600-ED2-□

		arpar onani.	
Symbol	Number of input channels	Number of output channels	Connector
В	2 channels	2 channels	M12 connector (5 pins) 4 pcs.

5 EX600 IO-Link unit

Port s	specification •	 Number of ports and connecto 					
Symbol	Description	Symbol	Number of ports	Connector			
Α	Port class A	В	4 ports	M12 connector			
В	Port class B	В	4 ports	(5 pins) 4 pcs.			

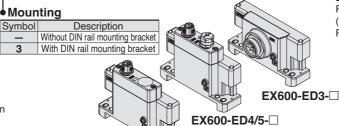
6 EX600 end plate

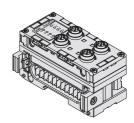
EX600-ED

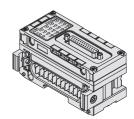
Power connector

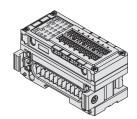
Symbol	Connector
2	M12 power supply connector, B-coded
3	7/8 inch power supply connector
4	M12 power supply connector IN/OUT,
4	A-coded, Pin arrangement 1
5	M12 power supply connector IN/OUT,
3	A-coded, Pin arrangement 2

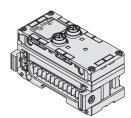
The pin layout for the "4" and "5" pin connectors is different.

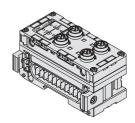


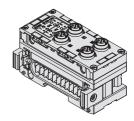












Clamp bracket for EX600

EX600-ZMA3

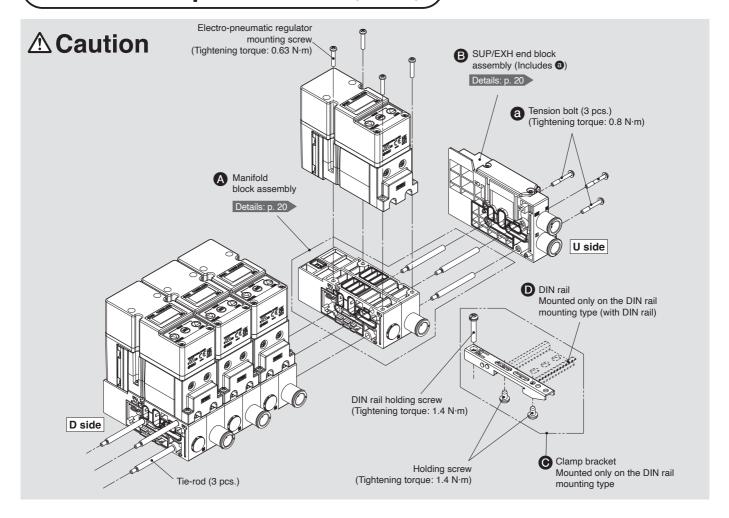
Enclosed parts

Round head screw with washer (M4 x 20) 1 pc. P-tight screw (4 x 14) 2 pcs.





Manifold Exploded View (U side)

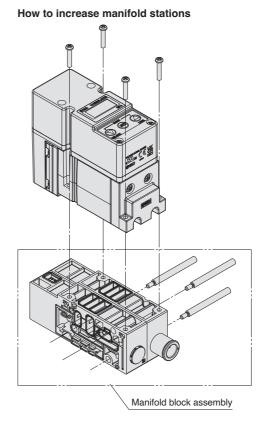


How to Increase Electro-Pneumatic Regulator Manifold Stations

- Loosen the U-side tension bolt @, and remove the B SUP/EXH end block assembly.
- 2 Screw in tie-rods for additional stations to the tie-rod of the manifold.
 - Screw them in until there is no gap between the tie-rods.
- Connect the manifold block assembly to be added, and SUP/EXH end block assembly and tighten the tension bolt a.

Tightening torque for tension bolt @ (M3): 0.8 N·m

- Be sure to shut off the power and air supplies before disassembly.
 - Furthermore, since air may remain inside the actuator, piping, and manifold, confirm that the air is completely exhausted before performing any work.
- When disassembly and assembly are performed, air leakage may result if the tightening of the tension bolt is inadequate.

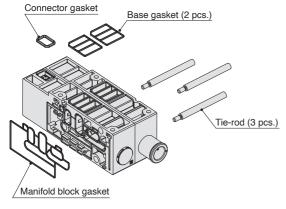




Manifold Parts Nos.

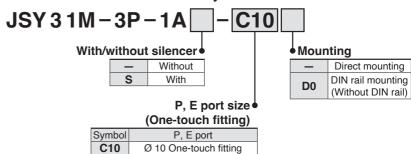
Manifold block assembly

P798050 - 9 - 2



BSUP/EXH end block assembly

00



* When "S: With" is selected for the silencer, the E port is plugged.

Plug

SUP/EXH end block assembly accessories and the number of accessories

Accessories	Quantity
Tension bolt	3 pcs.

© Clamp bracket

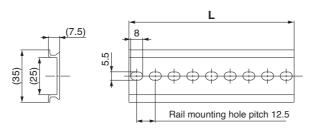
SY30M-15-1A

* The part number is for 1 piece.

DIN rail dimensions/weight

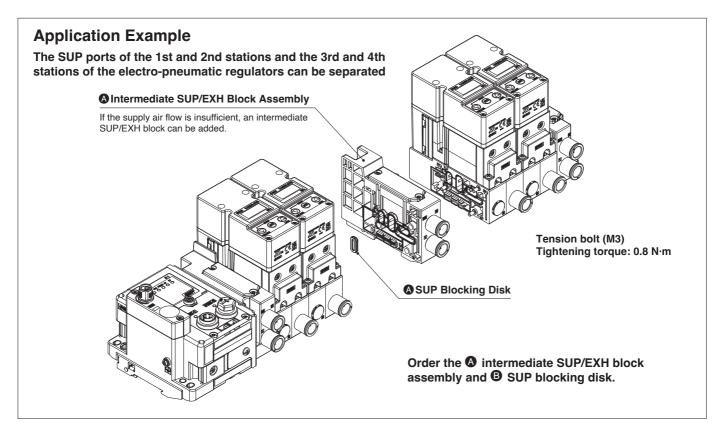
VZ1000 – 11 – 1 –

* After confirming the L3 dimension in the dimensions table of each series, refer to the DIN rail dimensions table below and specify the number in the box \Box .

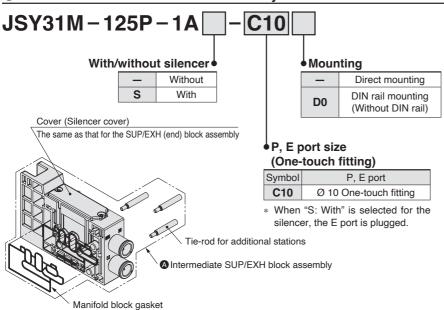


No.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
L dimension	98	110.5	123	135.5	148	160.5	173	185.5	198	210.5	223	235.5	248	260.5	273	285.5	298	310.5	323
Weight [g]	17.6	19.9	22.1	24.4	26.6	28.9	31.1	33.4	35.6	37.9	40.1	42.4	44.6	46.9	49.1	51.4	53.6	55.9	58.1
No.	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
L dimension	335.5	348	360.5	373	385.5	398	410.5	423	435.5	448	460.5	473	485.5	498	510.5	523	535.5	548	560.5
Weight [g]	60.4	62.5	64.9	67.1	69.4	71.6	73.9	76.1	78.4	80.6	82.9	85.1	87.4	89.6	91.9	94.1	96.4	98.6	100.9
NI.																			
No.	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
L dimension	573	39 585.5	598	41 610.5	42 623	43 635.5	44 648	45 660.5	46 673	47 685.5	48 698	49 710.5	50 723	51 735.5	52 748	53 760.5	54 773	55 785.5	56 798
								660.5	-						-				
L dimension	573	585.5	598	610.5	623	635.5	648	660.5	673	685.5	698	710.5	723	735.5	748	760.5	773	785.5	798
L dimension Weight [g]	573 103.1 57	585.5 105.4	598 107.6	610.5 109.9	623 112.1	635.5	648 116.6	660.5 118.9	673 121.1	685.5 123.4	698 125.6	710.5	723 130.1	735.5 132.4	748 134.6	760.5	773	785.5	798

IITV23 Series Accessories



A Intermediate SUP/EXH Block Assembly



Intermediate SUP/EXH block assembly accessories and the number of accessories

Accessories	Quantity
Tie-rod for additional stations	3 pcs.
Manifold block gasket	1 pc.

* Gasket is mounted.

⊙ Clamp bracket **SY30M** − **15** − **1A**

* The part number is for 1 piece.

⚠ Caution

- Be sure to shut off the power and air supplies before disassembly. Furthermore, since air may remain inside the actuator, piping and manifold, confirm that the air is completely exhausted before performing any work.
- When disassembly and assembly are performed, air leakage may result if the tightening of the cover and port block assemblies are inadequate.

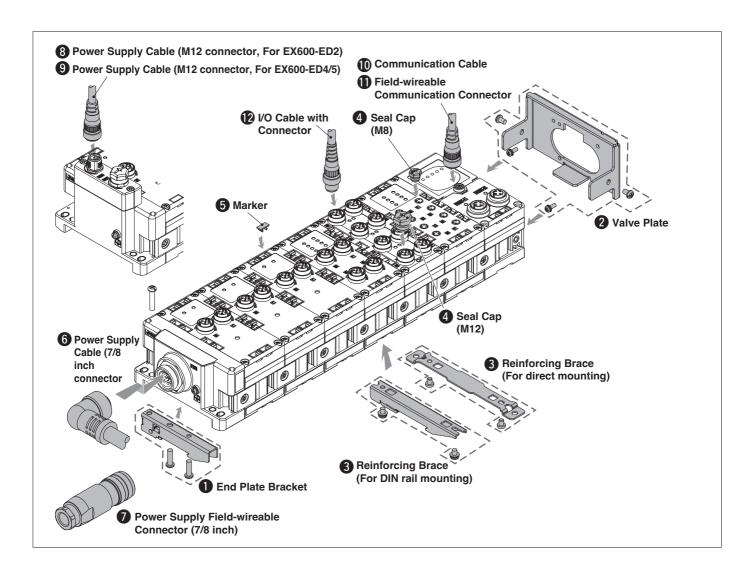
BSUP Blocking Disk

JSY31M-40P-1A

 Insert a SUP blocking disk between the intermediate SUP/EXH block and the electro-pneumatic regulator.

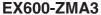






1 End Plate Bracket

This bracket is used for the end plate of DIN rail mounting.





Enclosed parts

Round head screw with washer (M4 x 20) 1 pc. P-tight screw (4 x 14) 2 pcs.

2 Valve Plate

EX600-ZMV3



Enclosed parts

Round head screw (M4 x 6) 2 pcs. Round head screw (M3 x 8) 2 pcs.

Reinforcing Brace

This bracket is used on the bottom of the unit at the intermediate position for connecting 6 units or more.

* Be sure to attach this bracket to prevent connection failure between the units caused by deflection.



For DIN rail mounting EX600-ZMB2

Enclosed parts

Round head screw (M4 x 6) 2 pcs.



4 Seal Cap (10 pcs.)

Be sure to mount a seal cap on any unused I/O connectors. Otherwise, the specified enclosure cannot be maintained.

EX9-AWES For M8

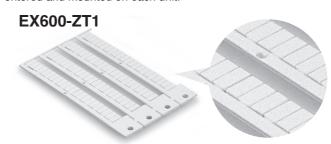


EX9-AWTS For M12



5 Marker (1 sheet, 88 pcs.)

The signal name of I/O device and each unit address can be entered and mounted on each unit.



6 Power Supply Cable (7/8 inch connector)

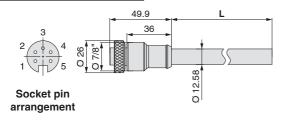
 PCA-1558810
 Straight 2 m

 PCA-1558823
 Straight 6 m

 PCA-1558836
 Right angled 2 m

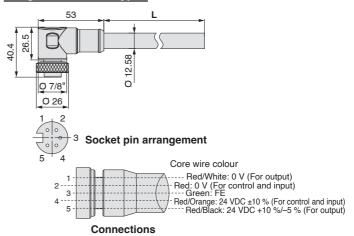
 PCA-1558849
 Right angled 6 m

Straight connector type





Angled connector type



Item	Specifications
Cable O.D.	Ø 12.58 mm
Conductor nominal cross section	1.5 mm ² /AWG16
Wire O.D. (Including insulator)	2.35 mm
Min. bending radius (Fixed)	110 mm



Power Supply Field-wireable Connector (7/8 inch)

PCA-1578081

Socket [compatible with AWG22-16]



Applicable Cable

Item	Specifications
Cable O.D.	Ø 12.0 to 14.0 mm
Wire gauge (Stranded wire cross section)	0.34 to 1.5 mm ² AWG22 to 16

8 Power Supply Cable (M12 connector, For EX600-ED2) * The shape of the M12 connector is B-coded (Reverse key).

 PCA-1564927
 Straight 2 m

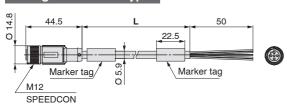
 PCA-1564930
 Straight 6 m

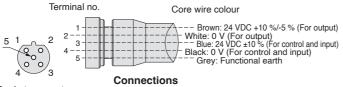
 PCA-1564943
 Right angled 2 m

 PCA-1564969
 Right angled 6 m



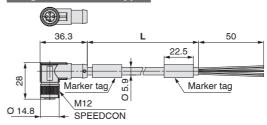
Straight connector type

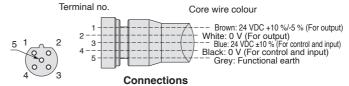




Socket connector pin arrangement B-coded (Reverse key)

Angled connector type



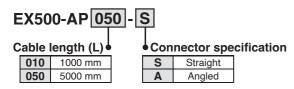


Socket connector pin arrangement B-coded (Reverse key)

Item	Specifications
Cable O.D.	Ø 5.9 mm
Conductor nominal cross section	0.34 mm ² /AWG22
Wire O.D. (Including insulator)	1.27 mm
Min hending radius (Fixed)	59 mm

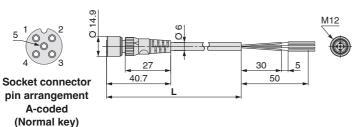
9 Power Supply Cable (M12 connector, For EX600-ED4/5)

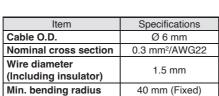
* The shape of the M12 connector is A-coded (Normal key).

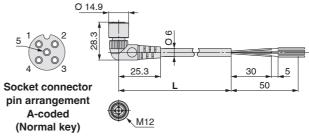


Straight connector type

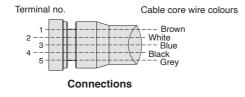
Angled connector type



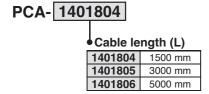


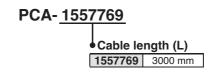


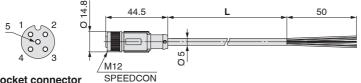
Item	Specifications
Cable O.D.	Ø 6 mm
Nominal cross section	0.3 mm ² /AWG22
Wire diameter (Including insulator)	1.5 mm
Min. bending radius	40 mm (Fixed)





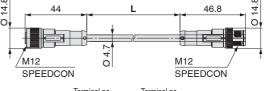


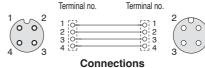




Socket connector pin arrangement A-coded (Normal key)

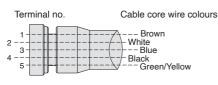
Item	Specifications
Cable O.D.	Ø 5 mm
Nominal cross section	0.3 mm ² /AWG22
Wire diameter (Including insulator)	1.27 mm
Min. bending radius	21.7 mm (Fixed)





Socket connector pin arrangement A-coded (Normal key)

Plug connector pin arrangement A-coded (Normal key)



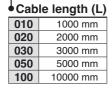
Connections

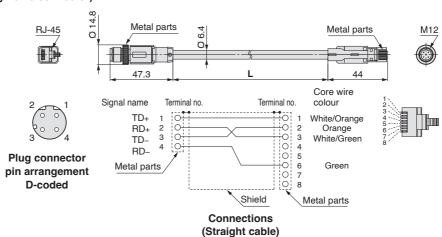


(1) Communication Cable

For PROFINET, EtherNet/IP™, EtherCAT

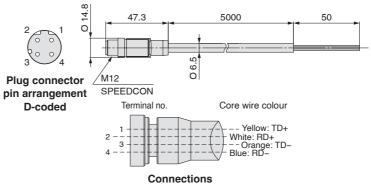
EX9-AC 020 EN-PSRJ (Plug/RJ-45 connector)





Item	Specifications
Cable O.D.	Ø 6.4 mm
Conductor nominal cross section	0.14 mm ² /AWG26
Wire O.D. (Including insulator)	0.98 mm
Min. bending radius (Fixed)	26 mm

PCA-1446566 (Plug)

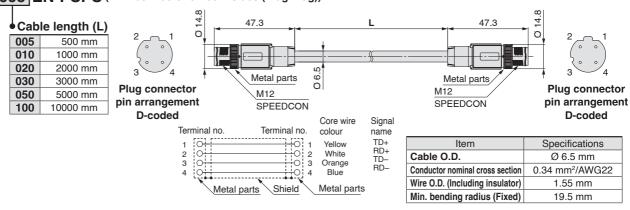


Item	Specifications
Cable O.D.	Ø 6.5 mm
Conductor nominal cross section	AWG22
Wire O.D. (Including insulator)	1.55 mm
Min. bending radius (Fixed)	45.5 mm

(1) Communication Cable

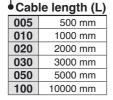
For PROFINET, EtherNet/IP™, EtherCAT

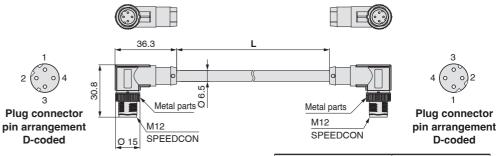
EX9-AC 005 EN-PSPS (With connector on both sides (Plug/Plug))



Connections (Straight cable)

EX9-AC 005 EN-PAPA (With angled connector on both sides (Plug/Plug))





Signal

Core wire

~
Ø 6.5 mm
34 mm ² /AWG22
1.55 mm
19.5 mm

Terminal no

Connections (Straight cable)

1 Field-wireable Communication Connector

Plug

For PROFINET, EtherNet/IP™, EtherCAT PCA-1446553

D-coded

Terminal no

Applicable Cable

Item	Specifications
Cable O.D.	4.0 to 8.0 mm
Wire gauge (Stranded wire cross section)	0.14 to 0.34 mm ² / AWG26 to 22

* The table above shows the specifications for the applicable cable. Adaptation for the connector may vary on account of the conductor construction of the electric wire.

■Trademark

EtherNet/IP® is a registered trademark of ODVA, Inc.

EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany. QuickConnect™ is a trademark of ODVA

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IITV23 Series Specific Product Precautions 1

Be sure to read this before handling the products. Refer to the back cover for safety instructions. For fieldbus system precautions, refer to the "Handling Precautions for SMC Products" and the "Operation Manual" on the SMC website: https://www.smc.eu

Operating Environment

⚠ Warning

 Do not use in atmospheres containing corrosive gases, chemicals, sea water, or where there is direct contact with any of these.

⚠ Caution

- When used in locations where the body of the product is exposed to water, water vapour, dust, etc., there is a possibility that moisture or dust could enter the body through the EXH port, thereby causing problems.
- To prevent this, simply install tubing to each port, and extend the tubing so that the other end is in a location where no water splash, etc., occurs. Make sure not to bend or block the I.D. of the tubing as this will have a detrimental effect on the pressure control.
- Do not use in places subject to heavy vibration and/ or impact.
- 4. The product should not be exposed to prolonged sunlight. Use a protective cover if this is unavoidable.
- 5. Remove any sources of excessive heat.
- 6. In locations where there is contact with water, oil, weld spatter, etc., take suitable protective measures.

Air Supply

- Please contact SMC when using the product in an application using a fluid other than compressed air.
- Do not use compressed air that contains chemicals, synthetic oils that include organic solvents, salt, corrosive gases, etc., as doing so may result in a malfunction.

- 1. Install an air filter near this product on the supply side. Select an air filter with a filtration size of 5 μ m or smaller.
- Compressed air that contains a large amount of drainage can cause the malfunction of this product and other pneumatic equipment. Therefore, take appropriate measures to ensure air quality, such as providing an aftercooler, air dryer, or water separator.
- 3. If excessive carbon dust is generated by the compressor, it may adhere to the inside of this product and cause it to malfunction.
 - Refer to the "SMC Air Preparation System" for further details on compressed air quality.

Handling

⚠ Caution

- Do not use a lubricator on the supply side of this product, as doing so may result in a malfunction. When lubrication of terminal equipment is necessary, connect a lubricator on the output side of this equipment.
- 2. If electric power is shut off while pressure is being applied, pressure will be retained on the output side. However, this output pressure is held only temporarily and is not guaranteed. If exhausting of this pressure is desired, shut off the power after reducing the set pressure, and discharge the air using a residual pressure exhaust valve, etc.
- 3. If the power to this product is cut off due to a power failure, etc., when it is in a controlled state, output pressure will be retained temporarily. Handle carefully when operating with output pressure released to the atmosphere, as air will continue to flow out.
- 4. If supply pressure to this product is interrupted while the power is still on, the internal solenoid valve will continue to operate and a humming noise may be generated. Since the life of the product may be shortened, shut off the power supply also when supply pressure is shut off.
- 5. The output side pressure cannot be completely released from this product in the range below 0.005 MPa. In cases where the pressure needs to be reduced completely to 0 MPa, install a 3-port valve, etc., on the output side to discharge the residual pressure.
- This product is adjusted for each specification at the time of shipment from the factory. Avoid careless disassembly or removal of parts, as failure to do so may result in a malfunction.
- 7. When connecting the cable to this product, turn the lock ring of the cable. If a portion other than the lock ring of the cable is turned, it may damage the connector on the body. Turn the lock ring by hand without using a tool.
- 8. The right angle cable does not rotate and is limited to only one entry direction. If the right angle cable is rotated forcibly, the cable may be broken or damaged, or may damage the connector on the body.
- 9. Take the following steps to avoid malfunction due to noise.
 - 1) Remove power supply noise during operation by installing a line filter, etc., in the AC power line.
 - 2) For avoiding the influence of noise or static electricity, install this product and its wiring as far as possible from strong electric fields such as those of motors, power lines, etc.
 - 3) Be sure to implement protective measures against load surge for induction loads (solenoid valves, relays, etc.).
- 10. Specifications on pages 5 and 6 are in case of static environment. Pressure may fluctuate when air is consumed at the output side.
- 11. For details on the handling of this product, refer to the operation manual which is included with the product.
- 12. This product does not have a shut-off valve function. If air pressure is supplied without electric power being applied, output pressure may increase to the pressure equivalent of the supply pressure. Operate the system to shut off the supply pressure when not operating the product.





IITV23 Series Specific Product Precautions 2

Be sure to read this before handling the products. Refer to the back cover for safety instructions. For fieldbus system precautions, refer to the "Handling Precautions for SMC Products" and the "Operation Manual" on the SMC website: https://www.smc.eu

Handling

⚠ Caution

- The solenoid valves built into this product are consumables. Perform periodic maintenance in environments where the solenoid valves are operated at a high frequency.
- 14. In locations where the body is exposed to water, dust, etc., there is a possibility that moisture or dust could enter the body through the EXH port. Mount a tube onto the EXH port and run the tube to a location not exposed to moisture, dust, etc.

Design / Selection

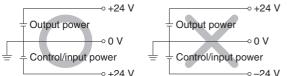
⚠ Caution

- 1. Use the following UL approved products for DC power supply combinations.
- (1) Limited voltage current circuit in accordance with UL 508 A circuit in which power is supplied by the secondary coil of a transformer that meets the following conditions
 - Max. voltage (with no load): 30 Vrms (42.4 V peak) or less
 - · Max. current:
 - (1) 8 A or less (including when short circuited)
 - (2) limited by circuit protector (such as fuse) with the follow-

ing ratings

No load voltage (V peak)	Max. current rating [A]
0 to 20 [V]	5.0
Over 20 and 30 or less [V]	100
	Peak voltage

- (2) A circuit (class 2 circuit) with max. 30 Vrms (42.4 V peak) or less, and a power supply consisting of a class 2 power supply unit confirming to UL1310, or a class 2 transformer confirming to UL1585
- 2. Operate these products only within the specified voltage.
 Using voltages beyond the specified levels could result in faults or malfunctions.
- 3. Use 0 V as the baseline for the power supplied to the unit for output, control, and input.



4. Please contact SMC for the usage when the output side is released to atmosphere.

This product is a pressure controller. The output side being released to atmosphere makes the inlet valve full open, allowing a large amount of atmosphere flow into the body. Please contact SMC for the appropriate usage when you use the product under such condition since the product may not meet the specification or the life of the product may be shortened.

Mounting

- 1. When handling and assembling units, do not touch the sharp metal parts of the connector or plug.
- When connecting six stations or more, be sure to use the intermediate reinforcing brace (EX600-ZMB1 or EX600-ZMB2).

Mounting

⚠ Caution

3. When using the manifold with DIN rail in an environment where any vibration or impact is applied to it, the DIN rail itself may be broken. In particular, if the installation surface vibrates when mounting the manifold on the wall or if a load is directly applied to the manifold, the DIN rail may be broken, causing the manifold to drop. When any vibration, impact, or load is applied to the manifold, be sure to use the direct mounting manifold.

Operating Environment

1. Select the proper type of enclosure according to the operating environment.

IP65/67 is achieved when the following conditions are met.

- Provide appropriate wiring between all units using electrical wiring cables, communication connectors and cables with M12 connectors.
- 2) Appropriately mount each unit and valve manifold.
- 3) Be sure to mount a seal cap on any unused connectors. If using in an environment that is exposed to water splashes, please take measures such as using a cover.

When the enclosure is IP 4 0 , do not use in an operating environment or atmosphere where it may come in contact with corrosive gas, chemical agents, seawater, water, or water vapour. When connected to the EX 6 0 0 -D $\square\square$ E or EX 6 0 0 -D $\square\square$ F, manifold enclosure is IP40.

Adjustment / Operation

Marning

1. The forced input/output function is used to change the signal status forcibly. When operating this function, be sure to check the safety of the surroundings and installation.

This may cause injuries or equipment damage.

 Incorrect setting of parameters can cause a malfunction. Be sure to check the settings before use.
 This may cause injuries or equipment damage.

Return of Product

⚠ Warning

If the product to be returned is contaminated or is possibly contaminated with substances that are harmful to humans, for safety reasons, please contact SMC beforehand and then employ a specialist cleaning company to decontaminate the product. After the decontamination prescribed above has been carried out, submit a Product Return Request Sheet or the Detoxification/ Decontamination Certificate to SMC and await SMC's approval and further instructions before attempting to return the item. Please refer to the International Chemical Safety Cards (ICSC) for a list of harmful substances.

If you have any further questions, please don't hesitate to contact your SMC sales representative.



These safety instructions are intended to prevent hazardous situations and/or equipment damage. These instructions indicate the level of potential hazard with the labels of "Caution," "Warning" or "Danger." They are all important notes for safety and must be followed in addition to International Standards (ISO/IEC) 1), and other safety regulations.

♠ Danger:

Danger indicates a hazard with a high level of risk which, if not avoided, will result in death or serious

Marning:

Warning indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious

Caution indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate 1) ISO 4414: Pneumatic fluid power - General rules and safety requirements for systems and their components.

ISO 4413: Hydraulic fluid power - General rules and safety requirements for systems and their components.

IEC 60204-1: Safety of machinery - Electrical equipment of machines. (Part 1: General requirements)

ISO 10218-1: Robots and robotic devices - Safety requirements for industrial robots - Part 1: Robots.

1. The compatibility of the product is the responsibility of the person who designs the equipment or decides its specifications.

Since the product specified here is used under various operating conditions, its compatibility with specific equipment must be decided by the person who designs the equipment or decides its specifications based on necessary analysis and test results. The expected performance and safety assurance of the equipment will be the responsibility of the person who has determined its compatibility with the product. This person should also continuously review all specifications of the product referring to its latest catalogue information, with a view to giving due consideration to any possibility of equipment failure when configuring the equipment.

2. Only personnel with appropriate training should operate machinery and equipment.

The product specified here may become unsafe if handled incorrectly. The assembly, operation and maintenance of machines or equipment including our products must be performed by an operator who is appropriately trained and experienced.

- 3. Do not service or attempt to remove product and machinery/ equipment until safety is confirmed.
 - 1. The inspection and maintenance of machinery/equipment should only be performed after measures to prevent falling or runaway of the driven objects have been confirmed.
 - 2. When the product is to be removed, confirm that the safety measures as mentioned above are implemented and the power from any appropriate source is cut, and read and understand the specific product precautions of all relevant products carefully.
 - 3. Before machinery/equipment is restarted, take measures to prevent unexpected operation and malfunction.
- 4. Our products cannot be used beyond their specifications. Our products are not developed, designed, and manufactured to be used under the following conditions or environments. Use under such conditions or environments is not covered.
 - 1. Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.
 - 2. Use for nuclear power, railways, aviation, space equipment, ships, vehicles, military application, equipment affecting human life, body, and property, fuel equipment, entertainment equipment, emergency shut-off circuits, press clutches, brake circuits, safety equipment, etc., and use for applications that do not conform to standard specifications such as catalogues and operation manuals.
 - 3. Use for interlock circuits, except for use with double interlock such as installing a mechanical protection function in case of failure. Please periodically inspect the product to confirm that the product is operating properly.

We develop, design, and manufacture our products to be used for automatic control equipment, and provide them for peaceful use in manufacturing industries.

Use in non-manufacturing industries is not covered.

Products we manufacture and sell cannot be used for the purpose of transactions or certification specified in the Measurement Act.

The new Measurement Act prohibits use of any unit other than SI units in Japan.

Limited warranty and **Disclaimer/Compliance** Requirements

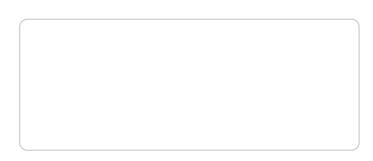
The product used is subject to the following "Limited warranty and Disclaimer" and "Compliance Requirements". Read and accept them before using the product.

Limited warranty and Disclaimer

- 1. The warranty period of the product is 1 year in service or 1.5 years after the product is delivered, whichever is first. 2) Also, the product may have specified durability, running distance or replacement parts. Please consult your nearest sales
- 2. For any failure or damage reported within the warranty period which is clearly our responsibility, a replacement product or necessary parts will be provided. This limited warranty applies only to our product independently, and not to any other damage incurred due to the failure of the product.
- 3. Prior to using SMC products, please read and understand the warranty terms and disclaimers noted in the specified catalogue for the particular products.
- 2) Vacuum pads are excluded from this 1 year warranty. A vacuum pad is a consumable part, so it is warranted for a year after it is delivered. Also, even within the warranty period, the wear of a product due to the use of the vacuum pad or failure due to the deterioration of rubber material are not covered by the limited

Compliance Requirements

- 1. The use of SMC products with production equipment for the manufacture of weapons of mass destruction (WMD) or any other weapon is strictly prohibited.
- 2. The exports of SMC products or technology from one country to another are governed by the relevant security laws and regulations of the countries involved in the transaction. Prior to the shipment of a SMC product to another country, assure that all local rules governing that export are known and followed



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